Oriental motor

ASTEP **AZ** Series Equipped

Electric Linear Slides Electric Cylinders



XSTEP AZ Series Equipped

Electric Linear Slides and Electric Cylinders

Electric Linear Slides





QSTEP AZ Series

AZ Series products feature a battery-free absolute sensor that can perform accurate positioning operations with ease.













What is the AZ Series with Built-in Battery-free Absolute Sensor



- Constant monitoring of a motor's position information with the built-in battery-free absolute sensor, without requiring an external sensor
- High reliability with closed loop control
- High efficiency technology reduces motor heat generation and saves energy

ASTEP?

These **QSTEP** stepper motor-based motors offer a unique form of hybrid control that combines the advantages of both open loop control and closed loop control. Under normal conditions, high responsiveness is achieved with open loop control. Under overload conditions, the motor continues to operate with position correction via closed loop control.

Because the motor, frame, guide rail, guide block, ball screw, and so on have already been selected and assembled, the design time and equipment startup time are shorter.

The **QSTEP** AZ Series is also equipped as the drive motor for unique hybrid control, offering both ease of use and reliability.

Electric Cylinders

EAC Series

Some models have an electromagnetic brake option available.

List price: Starting from 539.00 €*







■Motor Installation Direction





With Shaft Guide Cover







Various Combined Drivers

Combining both an electric linear slide and electric cylinder, the drivers and cables are common across the α

Built-in Controller Type

Set positioning data to the driver (up to 256). By using a network converter (sold separately), FA network control is possible



Pulse Input Type with **RS-485 Communication**

The motor's position, speed, torque, alarm status and temperature can be monitored using RS-485 communication.



Pulse Input Type

Controls the motor using a positioning module (pulse generator).



Network Compatible

EtherNet/IP EtherCAT.





Multi-axis Driver

- · Can be connected to a DC Input actuator
- Drivers with 2-axis, 3-axis and 4-axis connections are available



The **QSTEPAZ** has a separate catalog. When selecting a product, please also use this individual catalog.



Selection of Electric Linear Slides

	Don't al North a	D	Lord	Stroke	Max. Speed	
Series Type	Product Number Width × Height	Power Supply Voltage	Lead [mm]	[mm]	[mm/s]	
EZS Series			12	100 200 300 400 500 600 700 800 900 \$\infty\$ 1500 50~700	200 400 600 800 \$2000 800	
QSTEP AZ Equipped Straight Type	EZSM3	AC Input	6	50~700	400	
	54×50 mm	DC Input	12	50~700	600	
		DO IIIput	6	50~700	300	
Reversed Motor Type		AC Input	12	50~700	800	
11	EZSM4 74×50 mm		6	50~700	400	
	74/30 11111	DC Input	12	50~700	600	
•			6	50~700	300	
For Cleanroom Use		AC Input	12	50~850 50~850	400	
	EZSM6 74×66.5 mm		12	50~850 50~850	600	
4		DC Input	6	50~850	300	
EAS Series				6	50~300	300
QSTEP AZ Equipped Straight Type	80×38 mm*1	DC Input	3	50~300	150	
		AC Input	12	50~700	800	
	EASM4		6	50~700	400	
	45×60 mm*1	DC Input	12	50~700	600	
Reversed Motor Type			6	50~700	300	
		AC Input	12	50~850	800	
	EASM6 62×83 mm*1		6	50~850	400	
		DC Input	12	50~850	600	
			6	50~850	300	

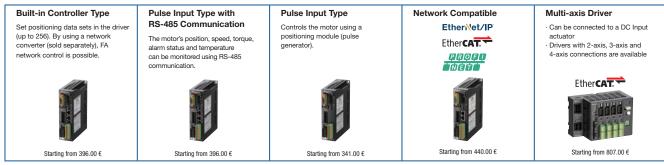
^{*1} The dimensions without sensor rails.

 $[\]ensuremath{\bigstar} 2$ The brackets () indicate the value of the reversed motor type.

Lower Line: St	tatic Permissible	le Moment [Nm] Moment [Nm]			Horizon	ntal Tr	anspo [kg]	rtable	Mas	SS		Verti	cal T	[k	portat g]	le Ma	ass	Repetitive Positioning Accuracy [mm]	List Price Starting from	Reference Page
MP	MY	MR	1,0	20	30	40) 5	0	60	7,0	80		10	2	0	30		[mm]	Starting north	1 age
4.2 26.4	4.2 26.4	10.5 52.0	7.5 15									3.5						±0.02	695.00 €	30
4.2 26.4	4.2 26.4	10.5 52.0	7.5 15									3.5 7						±0.02		31
8 51.2	8 42.5	27.8 176	15 30									7	12.5)	*1				±0.02	732.00 €	32 - 33
8 51.2	8 42.5	27.8 176	15 30									14 (12.5)					±0.02	732.00 €	34 - 35
45.7 290	37.5 187	55.6 340	30 									15 30						±0.02	984.00 €	36
45.7 290	37.5 187	55.6 340	30 									15 30				_		±0.02	904.00 €	37
2.4 4.0	1.5 4.0	4.6 7.7	7.5 15									2. 5						±0.02	651.00 €	62
16.3	4.8	15.0	15									7	12.5)	*1				+0.02	720.00 €	63 - 64
58.3	16.0	53.3	15									14 (12.5)	*1				±0.02	730.00 €	65 - 66
31.8	10.3	40.6	30									15 30						±0.02	001.00 €	67
86.0	34.0	110.0	30									15 30						±0.02	981.00 €	68

Various Combined Drivers

Combining both an electric linear slide and electric cylinder, the drivers and cables are common among the \mathcal{U}_{STEP} AZ Series.



Selection of Electric Cylinders

Series Type	Product Number Width × Height	Power Supply Voltage	Lead [mm]	Stroke [mm]	Max. Speed [mm/s]	Thrust Force [N]
	Width A Height	voltage	[IIIIII]	100 200 300 400	100 200 300 400 500 600 700 800	[IN]
EAC Series OXSTEP AZ Series	EACM2 28 × 28 mm	DC Input	6	50~150	300	25
Equipped Straight Type			3	50~150	150	50
		AC Input	12	50~300	600	~70
	EACM4		6	50~300	300	~140 (125) *
	42 × 42 mm	DC Input	12	50~300	600	~70
Reversed Motor Type		Do input	6	50~300	300	~140 (125) *
1		AC Input	12	50~300	600	~200
	EACM6	AC Input	6	50~300	300	~400 (360)*
	60 × 60 mm	DC Input	12	50~300	600	~200
		DC Input	6	50~300	300	~400 (360)*
EAC Series OSTEP AZ Series Equipped Straight Type With Shaft Guide Cover	EACM2W	DC Input	6	50150	300	25
Reversed Motor Type With Shaft Guide Cover	EACM2W 28 × 86 mm	DO HIPUT	3	50150	150	50
		AC Input	12	50~300	600	~70
Straight Type Type with a Shaft Guide	EACM4W	Ao Iliput	6	50~300	300	~140 (125)*
	42 × 114 mm	DC learne	12	50~300	600	~70
		DC Input	6	50~300	300	~140 (125)*
Reversed Motor Type		AC Input	12	1 50~300	600	~200
Type with a Shaft Guide	EACM6W	Ao mput	6	50~300	300	~400 (360)*
	60 × 156 mm	DC Input	12	50~300	600	~200
		Do niput	6	50~300	300	~400 (360)*

 $[\]slash\hspace{-0.4em}$ The brackets () indicate the value of the reversed motor type.

Push Force [N]	Horizontal Transportable Mass [kg]	Vertical Transportable Mass [kg]	Positioning Accuracy	List Price Starting from	Reference Page	
[11]	10 20 30 40 50 60 \$\ 200 400	10 20 30	[mm]	otarting from		
40	7.5	2.5	±0.02	539.00 €	95	
80	15	5				
100	15	7			97 - 98	
200	30	14 (12.5)*	±0.02	560.00 €	97-90	
100	15	7	±0.02	300.00 €	99 - 100	
200	30	14 (12.5)*			33 100	
400	30	15			101 - 102	
500	60	30	±0.02	641.00 €		
400	30 60	15	_0.02	011.00 0	103 - 104	
500	60	30				
40	7.5	2:0	±0.02	770.00 €	96	
80	15	4.5			90	
100	15	6			105 - 106	
200	30	13 (11.5)*	±0.02	790.00 €	100 - 100	
100	15	6	±0.02	7 30.00 €	107 - 108	
200	30	13 (11.5)*				
400	30	13			109-110	
500	60	28	±0.02	912.00 €		
400	30	13			111 - 112	
500	60	28			111-112	

Various Combined Drivers

Combining both an electric linear slide and electric cylinder, the drivers and cables are common among the α

Pulse Input Type with RS-485 Communication Network Compatible **Built-in Controller Type** Pulse Input Type Multi-axis Driver Set positioning data sets in the driver (up to 256). By using a network converter (sold separately), FA Controls the motor using a EtherNet/IP Can be connected to a DC Input actuator Drivers with 2-axis, 3-axis and 4-axis connections are available positioning module (pulse generator). The motor's position, speed, torque, Ether CAT. alarm status and temperature can be monitored using RS-485 communication. PROFI NET network control is possible. EtherCAT. Starting from 440.00 € Starting from 807.00 € Starting from 396.00 € Starting from 396.00 € Starting from 341.00 €

Different Drivers are Available to Match the Host System.

Built-in Controller Type 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 communication, or FA network. By using a network converter (sold separately), CC-Link or MECHATROLINK communication is possible.



Rotary Actuator

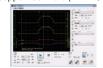
Basic Setting (Factory Setting)



Changing Parameters

Support Software (MEXEO2)

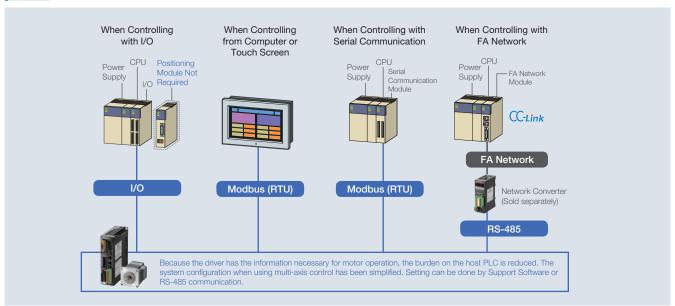
Setting Operating



 Setting using RS-485 communication is also possible.



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



Pulse Input Type with RS-485 Communication AC





This type executes operations by inputting pulses into the driver. The motor can be controlled using a positioning module (pulse generator) provided by the customer. The motor's status information (position, speed, torque, alarm, temperature, etc.) can be monitored using RS-485 communication.

Basic Setting (Factory Setting)

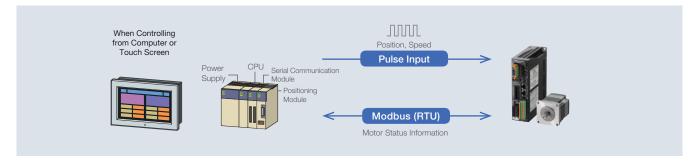






I/O Assignment Changing **Parameters** Changing Support Software (MEXEO2)

The alarm history can be checked and various conditions can be monitored using support software (MEXEO2).



AC: Single-Phase 100-120 VAC, Single-Phase/Three-Phase 200-240 VAC Input

DC: 24/48 VDC Input

Pulse Input Type AC

This type executes operations by inputting pulses into the driver. The motor can be controlled using a positioning module (pulse generator) provided by the customer. The alarm history can be checked and various conditions can be monitored using Support Software (MEXEO2).

Basic Setting (Factory Setting)







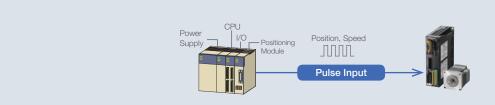


I/O Assignment

The alarm history can be checked and various conditions can be monitored using support software (MEXEO2).

Changing

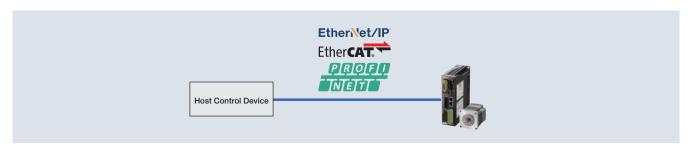
Parameters



Network-Compatible Drivers AC



These drivers are compatible with EtherNet/IP, EtherCAT and PROFINET communication. They can be directly controlled from the network. The host control device and driver are connected with one communication cable, reducing wiring.



Network-Compatible Multi-axis Drivers

These multi-axis drivers are compatible with EtherCAT drive profile. They can be connected to AZ Series DC Input motors and their on-board linear & rotary actuators. Drivers with 2-axis, 3-axis and 4-axis connections are available. *Product details are provided in the individual catalogs of the multi-axis drivers.





Individual Catalogues

- CC-Link is a registered trademark of CC-Link Partner Association, and EtherNet/IP is a registered trademark of ODVA.
- Ether CAT: is a registered trademark for a patented technology licensed by Beckhoff Automation GmbH (Germany).
- is a trademark or registered trademark of PROFIBUS Nutzerorganisation e.V. (PNO).

The **AZ** Series Offers Easy Settings and Useful Functions.



Support Software MEXEO2

Support Software can be downloaded from the Oriental Motor website.

Easy Setting and Easy Operation

Basic settings can be performed with the Support Software **MEXEO2**, such as operating data editing and parameter settings.

The sequence function also allows for advanced movement with simple input.

Unit Setting Wizard

This is a function that allows the traveling amount, speed, etc. to be displayed and input in the designated units. Values can be displayed and set in the units that suit the mechanisms being used (mm, deg), eliminating unit conversion work and making it easy to input operating data.



Creation of Recovery Data File

First, a file with the product's factory settings is created in preparation for product replacement during maintenance or when the product has been damaged.

Please be sure to create a recovery data file when using a linear & rotary actuator.

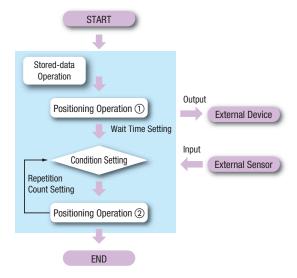


Simplified Main Program with Sequence Function

AZ Series stored-data operations come with a variety of sequence functions, such as a timer setting between operations and linked operation, conditional branching, and loop counting. These help simplify the host system's sequence program.

Built-in Controller Type

- Number of Positioning Operation Data Sets (Up to 256)
- General-Purpose I/O Signal Counts (Input 10, Output 6)
- Communication I/O Signal Counts (Input 16, Output 16)

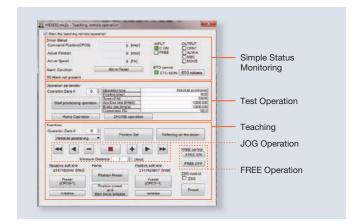


Test Function

This function enables you to operate a motor alone or check the connection to the host system. Using this function when starting up the equipment can reduce the overall startup time.

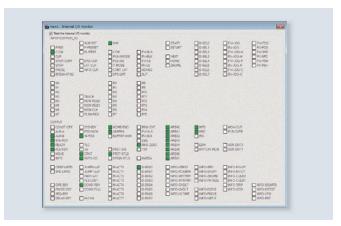
Teaching and Remote Operation

Data setting software can be used to easily perform the home setting and also drive the motor. Teaching and test runs can be performed before connecting to the host system, shortening equipment startup time.



I/O Test On startup For operation

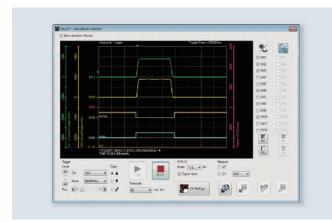
Input signals can be monitored, and output signals can be forced to output. This is a useful function for host system wiring and checking remote I/O operations.



Various Monitoring Functions

Waveform Monitor On startup

The operating status of the motor and output signals can be monitored like an oscilloscope. This can be used for equipment start-up and adjustment.



Status MonitorOn startup

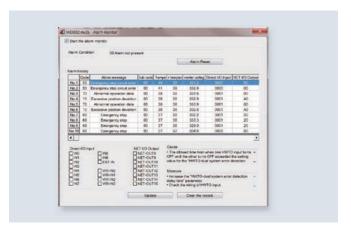
In addition to being able to monitor the speed, motor, driver temperature and load factor during operations, the integrating rotation amount, etc. can be monitored from the start of use. The signal for each item can be output at your discretion, which leads to effective maintenance.



- ① Detects the actual position with respect to the command
- 2 Detects the actual speed with respect to the command speed.
- 3 Detects the temperature of the motor encoder and driver.
- 4 Displays the current load factor with the output torque at the rotation speed at 100%.

Alarm Monitor On startup

When an abnormality occurs, the details of the abnormality, the operating status at the time of the occurrence, and the solution can be checked.



Multi-monitoring Compatibility

Multiple settings screens, such as data settings, test operations and monitoring, can be simultaneously opened and used on separate screens. This makes equipment start-up and adjustment easy to accomplish.



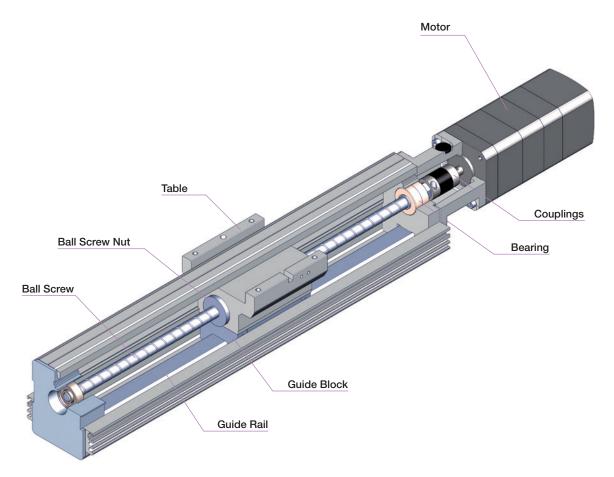
Overview of Electric Linear Slides

The electric linear slide is a positioning linear slide consisting of an \mathcal{C} STEP AZ Series motor and frame, guide rail, guide block, and ball screw. They are capable of linear drive in a precise, accurate manner through the rotation of a ball screw and guide.

Highly Accurate Positioning Operation

The ball screw is rotated by a motor to drive a table fixed to a ball screw nut.

The guide rail can guide accurate linear motion and support the weight of the load, making highly accurate positioning of a large load possible.



■Types and Features of Electric Linear Slides

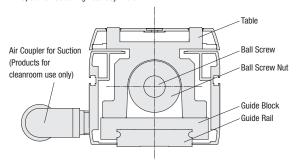
■ EZS Series **QSTEP** AZ Series Equipped

EZS Series **Q**STEP **AZ** Series For Cleanroom Use

This is a compact and lightweight slide with an LM guide with ball retainer incorporated* in the frame. The slide is installed using the high-accuracy LM guide as a reference, allowing for traveling parallelism of 0.03 mm or less. The stainless sheet and roller structure suppresses dust caused by internal sliding.

Products for cleanrooom use have the same functions and performance as the **EZS** Series.

- *"Ball retainer" and "LM guide" are registered trademarks of THK Co, Ltd.
- Use of Ball Screw
- lacktriangle Repetitive Positioning Accuracy $\pm 0.02~\text{mm}$







Reversed Motor Type (Right side/left side)

This photo shows the left side type



For Cleanroom Use (Suction joint right direction/suction joint left direction)

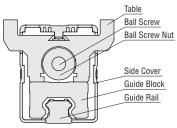
This photo shows the suction joint left type
Only the straight type is compatible for cleanroom use

■ EAS Series **QSTEP** AZ Series Equipped

This is an electric linear slide with a ball screw and a ball retainer LM guide manufactured by THK*. This slide is suitable for applications where traveling parallelism is required because the highly accurate LM guide is directly installed to customer's enclosure base. (Traveling parallelism of 0.03 mm or less)

Although this slider is compact, it is rigid and can transport large masses.

- *"Ball retainer" and "LM guide" are registered trademarks of THK Co, Ltd.
- Use of Ball Screw
- \blacksquare Repetitive Positioning Accuracy $\pm 0.02~\text{mm}$





Reversed Motor Type (Right side/left side)

This photo shows the right side type

Linear Slides

XSTEP AZ Serie
Equipped

CASTEP
AZ Series
Equipped

Electric Cylinders

CSTEP
AZ Series
Equipped
EAC

Driver/ Connection cable

■List of Combinations

AC Input

Product Line	Series	Product Name (On-board motor name)
Electric Linear Slides	EZS Series	EZSM3 AZAC (AZM46AC) EZSM3 AZMC (AZM46MC) EZSM4 AZAC (AZM46AC) EZSM4 AZAC (AZM46AC) EZSM6 AZMC (AZM66AC) EZSM6 AZAC (AZM66AC)
	EAS Series	EASM4 AZAC (AZM46AC) EASM4 AZAC (AZM46MC) EASM6 AZAC (AZM66AC) EASM6 AZAC (AZM66AC)

+

Product Line	Туре	Product Name			
	Built-in Controller Type	AZD-AD, AZD-CD			
	Pulse Input Type with RS-485 Communication	AZD-AX, AZD-CX			
Driver	Pulse Input Type	AZD-A, AZD-C			
Driver	EtherNet/IP-compatible	AZD-AEP, AZD-CEP			
	EtherCAT Drive Profile-compatible	AZD-AED, AZD-CED			
	PROFINET-compatible	AZD-APN, AZD-CPN			

+

Product Line	Туре	Product Name
Connection Cable Sets/	Connection Cable Set	For motor/encoder: CC VZF For motor/encoder/electromagnetic brake: CC VZFB
Flexible Connection Cable Sets	Flexible Connection Cable Sets	For motor/encoder: CC VZR For motor/encoder/electromagnetic brake: CC VZRB

[●] A number or letter indicating the following is specified where the symbol is located in the product name.

☐: Motor installation direction or direction of air coupler for suction
☐: Sensor rail

: Table

: Stroke

DC Input

Product Line	Series	Product Name (On-board motor name)
Electric Linear Slides	EZS Series	EZSM3 AZAK (AZM46AK) EZSM3 AZMK (AZM46MK) EZSM4 AZAK (AZM46AK) EZSM4 AZAK (AZM46MK) EZSM6 AZMK (AZM66AK) EZSM6 AZMK (AZM66AK)
	EAS Series	EASM2 AZAK (AZM24AK) EASM4 AZAK (AZM46AK) EASM4 AZAK (AZM46AK) EASM6 AZAK (AZM66AK) EASM6 AZAK (AZM66AK)

	+				
Product Line	Туре	Product Name			
	Built-in Controller Type	AZD-KD			
	Pulse Input Type with RS-485 Communication	AZD-KX			
Driver	Pulse Input Type	AZD-K			
Driver	EtherNet/IP-compatible	AZD-KEP			
	EtherCAT Drive Profile-compatible	AZD-KED			
	PROFINET-compatible	AZD-KPN			

Product Line		Туре	Product Name		
F	For EASM2	Connection Cable Set	CC\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
	FOI EASINIZ	Flexible Connection Cable Sets	CC\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
Connection Cable Sets/ Flexible Connection Cable Sets	For EZSM3, EZSM4,	Connection Cable Set	For motor/encoder: CC VZF2 For motor/encoder/electromagnetic brake: CC VZFB2		
	EZSM6, EASM4, EASM6	Flexible Connection Cable Sets	For motor/encoder: CC VZR2 For motor/encoder/electromagnetic brake: CC VZRB2		

[●] A number or letter indicating the following is specified where the symbol is located in the product name.

☐: Motor installation direction or direction of air coupler for suction

: Sensor rail

: Table

☐: Stroke

Electric Cylinders

CXSTEP AZ Series Equipped EAC

Driver/ Connection cable

How to Read Specifications

This is how to read specifications, using electric linear slide specifications as an example.

■ Electric Linear Slide Specifications

	1 10 801				_		
(1)—	Lead Screw Pitch		mm	1	2	(3
2	Electromagnetic Brake (Power off activated type)			With	Blank		
3-	Drive Method				Ball S	crew	
4)-	Repetitive Positioning Accura	су	mm		±0	.02	
(5)—	Minimum Traveling Amount		mm		0.0	01	
6-	Traveling Parallelism		mm		0.0	03	
⑦ <u></u>	Permissible Moment	Dynamic Permissible Moment	Nm	M _P :16.3 M _Y :4.8 M _R :15.0			0
		Static Permissible Moment		Me:58.3 My:16.0 Me:53.3			
(8)—	Transportable Mass	Horizontal	kg	~	15	~	30
0	iransportable iviass	Vertical	ĸy	~7	_	~14	_
9-	Thrust		N	~	70	~1	40
10-	Push Force		N	10	00	20	00
11)—	Holding Force		N	7	0	14	10
		50∼500 mm		80	00	40	00
		550 mm		650		32	20
(12)—	Maximum Speed by Stroke	600 mm	mm/s	55	50	270	
		650 mm		460 400		22	20
		700 mm				200	

Depending on the product, there may be usage restrictions or precautions. Refer to the notes on each product's page for details.

(1)Leac

Distance the table moves in the linear direction in one motor rotation.

②Electromagnetic Brake (Power off activated type)
There are products with and without a power off activated type electromagnetic brake. Please select the type with an electromagnetic brake when driving in a vertical direction. (Except for **EASM2**)

③Drive Method

This refers to the mechanism that converts rotation into linear motion.

4 Repetitive Positioning Accuracy

A value indicating the degree of error that generates when positioning is performed repeatedly to the same position in the same direction (measured at a constant temperature and under a constant load).

⑤Minimum Traveling Amount

The minimum distance that a table can travel. (Factory setting)

6Traveling Parallelism

The range of motion in the height and lateral directions from the electric linear slide's installation surface to the tabletop.

7)Permissible Moment

The load moment acts on the linear guide if the load's position is offset from the center of the table.

The direction of action applies to 3 directions: pitching (MP), yawing (MY), and rolling (MR), depending on the position of the offset. The dynamic permissible moment is the moment during operation. The static permissible moment is the moment while the motor is not moving.

®Transportable Mass

Horizontal direction

The maximum mass that can be moved under rated operating performance when using the electric linear slide horizontally.

Vertical direction

The maximum mass that can be moved under rated operating performance when using the electric linear slide vertically.

Thrus

The thrusting force the table exerts on the load during constant speed operation.

The pressure at push-motion operation.

11)Holding Force

The holding force in the power ON state when the motor is stopped and when the electromagnetic brake is activated.

¹²Maximum Speed by Stroke

The maximum speed that the maximum transportable mass can be moved. The upper limit of speed is limited by the length of the stroke.

Electric Linear Slides

> AZ Series Equipped

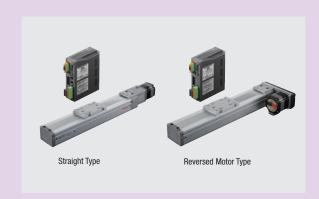
CASTEP AZ Series Equipped EAS

Electric Cylinders

CLSTEP
AZ Series
Equipped
EAC

Driver/ Connection cable

EZS Series α_{STEP} AZ Series Equipped



The **EZS** Series contains compact linear slides that are highly rigid and have a simple dust-resistant structure. Motors from the **QSTEP AZ** Series are equipped. These electric linear slides can provide 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

Features

Wide Variety of Products to Match Installation Spaces and Environments

Slim, high accuracy, and high strength slides and the product line includes reversed motor types with shorter overall length. Standard motors from the **AZ** Series are equipped. Various products are available.

Motor

ASTEP AZ Series

- Built-in battery-free absolute sensor
- · Positioning information is available without a sensor
- High reliability with closed loop control
- High efficiency technology reduces motor heat generation and saves energy

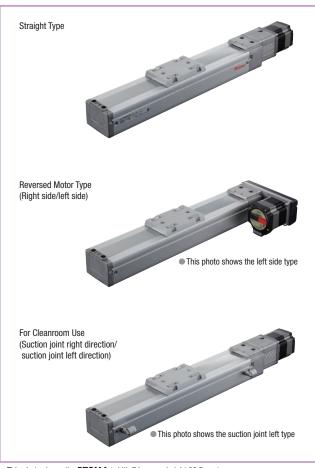


FLEX What is FLEX?

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.

Electric Linear Slides



 \blacksquare This photo shows the **EZSM6** (width 74 mm \times height 66.5 mm).

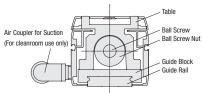
High Rigidity & High Accuracy

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

High Rigidity and High Accuracy Guide

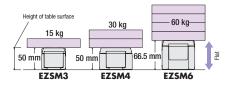
The guides used are ball retainer equipped LM guides* made by THK. The slim stainless steel guide increases the load moment. The highly accurate guide also enables traveling parallelism of 0.03 mm or less.

 $\boldsymbol{\ast}$ "Ball retainer" and "LM guide" are registered trademarks of THK Co, Ltd.



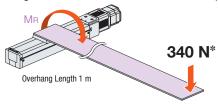
Traveling Parallelism 0.03 mm or Less

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 Nm for EZSM6.

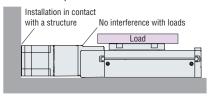
• Permissible Moment in the Rolling Direction [Nm]

Product Number	Static Permissible Moment*1	Dynamic Permissible Moment*2
EZSM3	52.0	10.5
EZSM4	176	27.8
EZSM6	340	55.6

- $\ensuremath{\,\$}\xspace1$ Load moment that the linear guide can support while the motor is stopped

Space Saving

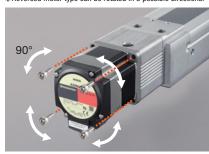
Effective utilization of the installation space is possible because the body does not interfere with the loads. Installation in contact with another structure is possible.



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.

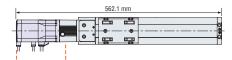


Reversed Motor Type

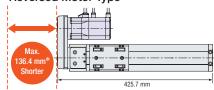
The length of the reversed motor type is up to 136.4 mm shorter than the straight type. This contributes to space saving with equipment.

EZSM6 With Electromagnetic Brake Stroke 200 mm

Straight Type



Reversed Motor Type



*With Electromagnetic Brake

Electric Linear

> AZ Series Equipped

AZ Series Equipped EAS

Electric Cylinders

CSTEP
AZ Series
Equipped
EAC

Driver/ Connection cable

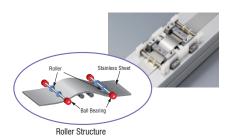
Simple Dust-proof Structure

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



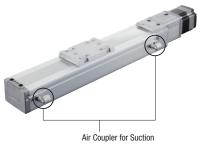
Low Dust-Generative Roller Mechanism (Patented)

The low dust-generative roller mechanism in the table 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 meeting ISO Standard Class 3* (equivalent to FED Standard Class 1) has been achieved.



Clean degree of ISO Standards Class 3 is achieved by using a suction pump.

*ISO Standards Class 3 [ISO Standards Class 3]

Particle Diameter [μm]	0.1	0.3	0.5	
Reduced Particulate Generation [Pieces/m ³]	1000 max.	102 max.	35 max.	

Uses Low Dust-generative Clean Grease

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

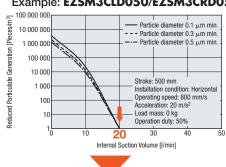


Clean Degree of Class 3 is Achieved with Minimum Suction

For example, **EZSM3** can achieve the clean degree of ISO Standards Class 3, when the internal suction volume is approximately 20 l/min or more.

 Correlation Diagram of Reduced Particulate Generation and Suction Volume

Example: EZSM3CLD050/EZSM3CRD050



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

• Internal Suction Volume that Meets ISO Standards Class 3

Туре	EZSM3	EZSM4	EZSM6
Internal Suction Volume [L/min]	20	30	30

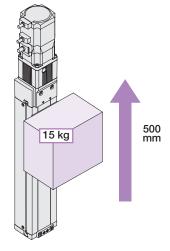
For the correlation diagram of dust-generation and suction amount for EZSM4 and EZSM6, refer to page 47.

High Speed Driving with Light Load or Heavy Load

High speed driving with a light load or heavy load can be achieved, even with inching operation.

<Product Used>
Product Name: **EZSM6**Lead: 6 mm
Input Type: 200 VAC

<Example operation> Load Mass: 15 kg Positioning Distance: 500 mm Drive Direction: Vertical

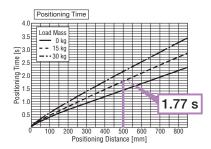


High Speed Driving Even with a Heavy Load

High speed driving is possible, even if a heavy load is being transported vertically.

Load Mass: 15 kg

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

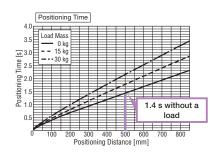


High Speed Driving Even with a Light Load

High speed driving is still possible, even with no load on the return trip.

Load Mass: 0 kg

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



Slides

AZ Serie Equippe

CXSTEP
AZ Series
Equipped
FAS

Electric Cylinders

CSTEP
AZ Series
Equipped
EAC

Driver/ Connection cable

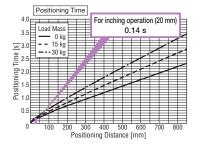
Peripheral Equipment

High Speed Driving Even in Inching Operation

High speed driving is still possible, even in inching operation with minute distances.

Load Mass: 15 kg

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



EZS Series α_{STEP} AZ Series Equipped

■Product Line of Electric Linear Slides

AC Input

◇Product Number

① Model	② Motor Orientation	Lead Screw Pitch	⑤ Stroke	© Equipped Motor	7 Motor Type	8 Motor Specifications
EZSM4	L	D	005	AZ	A	C
EZSM3 EZSM4 EZSM6	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 increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: AC Input Specifications

♦ EZSM3 Straight Type / Revered Motor Type

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

Motor Type (A, M)		Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (005)	695.00 €	868.00 €
	100 mm (010)	695.00 €	868.00 €
	150 mm (015)	719.00 €	894.00 €
	200 mm (020)	719.00 €	894.00 €
	250 mm (025)	744.00 €	918.00 €
	300 mm (030)	744.00 €	918.00 € 943.00 €
⑤ Stroke	350 mm (035)	769.00 €	943.00 €
O SHOKE	400 mm (040)	769.00 €	943.00 €
	450 mm (045)	794.00 €	967.00 €
	500 mm (050)	794.00 €	967.00 €
	550 mm (055)	819.00 €	993.00 €
	600 mm (060)	819.00 €	993.00 €
	650 mm (065)	843.00 €	1,018.00 €
	700 mm (070)	843.00 €	1,018.00 €

♦ EZSM4 Straight Type / Revered Motor Type

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

Motor Type (A, M)		Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (005)	732.00 €	906.00 €
	100 mm (010)	732.00 €	906.00 €
	150 mm (015)	756.00 €	931.00 €
	200 mm (020)	756.00 €	931.00 €
	250 mm (025)	781.00 €	955.00 €
	300 mm (030)	781.00 €	955.00 €
(5)Stroke	350 mm (035)	807.00 €	981.00 €
Stroke	400 mm (040)	807.00 €	981.00 €
	450 mm (045)	831.00 €	1,005.00 €
	500 mm (050)	831.00 €	1,005.00 €
	550 mm (055)	856.00 €	1,030.00 €
	600 mm (060)	856.00 €	1,030.00 €
	650 mm (065)	880.00€	1,055.00 €
	700 mm (070)	880.00 €	1,055.00 €

♦ EZSM6 Straight Type / Revered Motor Type

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

Motor Type (A, I	M)	Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (005)	984.00 €	1,208.00 €
	100 mm (010)	984.00 €	1,208.00 €
	150 mm (015)	1,009.00 €	1,232.00 €
	200 mm (020)	1,009.00 €	1,232.00 €
	250 mm (025)	1,033.00 €	1,258.00 €
	300 mm (030)	1,033.00 €	1,258.00 €
	350 mm (035)	1,059.00 €	1,282.00 €
	400 mm (040)	1,059.00 €	1,282.00 €
Stroke	450 mm (045)	1,084.00 €	1,307.00 €
	500 mm (050)	1,084.00 €	1,307.00 €
	550 mm (055)	1,108.00 €	1,333.00 €
	600 mm (060)	1,108.00 €	1,333.00 €
	650 mm (065)	1,133.00 €	1,357.00 €
	700 mm (070)	1,133.00 €	1,357.00 €
	750 mm (075)	1,158.00 €	1,382.00 €
	800 mm (080)	1,158.00 €	1,382.00 €
	850 mm (085)	1,183.00 €	1,407.00 €

AC Input

◇Product Number

Model	③ Direction of Air Coupler for Suction*	Lead Screw Pitch	Stroke	(6) Equipped Motor	7 Motor Type	8 Motor Specifications
EZSM4	CR	D	005	AZ	A	C
EZSM3 EZSM4 EZSM6	CL: Left Direction CR: Right Direction	D : 12 mm E : 6 mm	O05: 50 mm O10: 100 mm O15: 150 mm ~ O85: 850 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: AC Input Specifications

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

♦ EZSM3 For Cleanroom Use

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

Motor Type (A, M)		Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (005)	819.00 €	993.00 €
	100 mm (010)	819.00 €	993.00 €
	150 mm (015)	843.00 €	1,018.00 €
	200 mm (020)	843.00 €	1,018.00 €
	250 mm (025)	868.00 €	1,042.00 €
	300 mm (030)	868.00 €	1,042.00 €
⑤ Stroke	350 mm (035)	894.00 €	1,067.00 €
O SHOKE	400 mm (040)	894.00 €	1,067.00 €
	450 mm (045)	918.00 €	1,093.00 €
	500 mm (050)	918.00 €	1,093.00 €
	550 mm (055)	943.00 €	1,117.00 €
	600 mm (060)	943.00 €	1,117.00 €
	650 mm (065)	967.00 €	1,142.00 €
	700 mm (070)	967.00 €	1,142.00 €

♦ EZSM4 For Cleanroom Use

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

Motor Type (A, I	M)	Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (005)	856.00 €	1,030.00 €
	100 mm (010)	856.00 €	1,030.00 €
	150 mm (015)	880.00 €	1,055.00 €
	200 mm (020)	880.00€	1,055.00 €
	250 mm (025)	906.00 €	1,080.00 €
	300 mm (030)	906.00 €	1,080.00 €
⑤ Stroke	350 mm (035)	931.00 €	1,105.00 €
O SHOKE	400 mm (040)	931.00 €	1,105.00 €
	450 mm (045)	955.00 €	1,129.00 €
	500 mm (050)	955.00 €	1,129.00 €
	550 mm (055)	981.00 €	1,154.00 €
	600 mm (060)	981.00 €	1,154.00 €
	650 mm (065)	1,005.00 €	1,180.00 €
	700 mm (070)	1,005.00 €	1,180.00 €

♦ EZSM6 For Cleanroom Use

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

Motor Type (A, M)		Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (005)	1,108.00 €	1,333.00 €
	100 mm (010)	1,108.00 €	1,333.00 €
	150 mm (015)	1,133.00 €	1,357.00 €
	200 mm (020)	1,133.00 €	1,357.00 €
	250 mm (025)	1,158.00 €	1,382.00 €
	300 mm (030)	1,158.00 €	1,382.00 €
	350 mm (035)	1,183.00 €	1,407.00 €
	400 mm (040)	1,183.00 €	1,407.00 €
5 Stroke	450 mm (045)	1,208.00 €	1,432.00 €
	500 mm (050)	1,208.00 €	1,432.00 €
	550 mm (055)	1,232.00 €	1,457.00 €
	600 mm (060)	1,232.00 €	1,457.00 €
	650 mm (065)	1,258.00 €	1,481.00 €
	700 mm (070)	1,258.00 €	1,481.00 €
	750 mm (075)	1,282.00 €	1,506.00 €
	800 mm (080)	1,282.00 €	1,506.00 €
	850 mm (085)	1,307.00 €	1,532.00 €

Electric Linear Slides

> CLSTEP AZ Serie Equippe F7S

CLSTEP
AZ Series
Equipped
EAS

Electric Cylinders

> OXSTEP AZ Series Equipped EAC

Driver/ Connection cable

DC Input

\Diamond Product Number

① Model	② Motor Orientation	Lead Screw Pitch	⑤ Stroke	6 Equipped Motor	7 Motor Type	8 Motor Specifications
EZSM4	L	D	005	AZ	Α	K
EZSM3 EZSM4 EZSM6	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 increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: DC Input Specifications

♦ EZSM3 Straight Type / Revered Motor Type

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

Motor Type (A, M)		Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (005)	695.00 €	868.00 €
	100 mm (010)	695.00 €	868.00 €
	150 mm (O15)	719.00 €	894.00 €
	200 mm (020)	719.00 €	894.00 €
	250 mm (025)	744.00 €	
	300 mm (030)	744.00 €	918.00 €
⑤ Stroke	350 mm (035)	769.00 €	943.00 €
Stroke	400 mm (040)	769.00 €	943.00 €
	450 mm (045)	794.00 €	967.00 €
	500 mm (050)	794.00 €	967.00 €
	550 mm (055)	819.00 €	993.00 €
	600 mm (060)	819.00 €	993.00 €
	650 mm (065)	843.00 €	1,018.00 €
	700 mm (070)	843.00 €	1,018.00 €

♦ EZSM4 Straight Type / Revered Motor Type

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

Motor Type (A, M)		Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (005)	732.00 €	906.00 €
	100 mm (010)	732.00 €	906.00 €
	150 mm (015)	756.00 €	931.00 €
	200 mm (020)	756.00 €	931.00 €
	250 mm (025)	781.00 €	955.00 €
	300 mm (030)	781.00 €	955.00 €
⑤ Stroke	350 mm (035)	807.00 €	981.00 €
3 SHOKE	400 mm (040)	807.00 €	981.00 €
	450 mm (045)	831.00 €	1,005.00 €
	500 mm (050)	831.00 €	1,005.00 €
	550 mm (055)	856.00 €	1,030.00 €
	600 mm (060)	856.00 €	1,030.00 €
	650 mm (065)	880.00€	1,055.00 €
	700 mm (070)	880.00€	1,055.00 €

♦ EZSM6 Straight Type / Revered Motor Type

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

<u> </u>			• • • • • • • • • • • • • • • • • • • •
Motor Type (A, M)		Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (005)	984.00 €	1,208.00 €
	100 mm (010)	984.00 €	1,208.00 €
	150 mm (O15)	1,009.00 €	1,232.00 €
	200 mm (020)	1,009.00 €	1,232.00 €
	250 mm (025)	1,033.00 €	1,258.00 €
	300 mm (030)	1,033.00 €	1,258.00 €
	350 mm (035)	1,059.00 €	1,282.00 €
	400 mm (040)	1,059.00 €	1,282.00 €
⑤ Stroke	450 mm (045)	1,084.00 €	1,307.00 €
	500 mm (050)	1,084.00 €	1,307.00 €
	550 mm (055)	1,108.00 €	1,333.00 €
	600 mm (060)	1,108.00 €	1,333.00 €
	650 mm (065)	1,133.00 €	1,357.00 €
	700 mm (070)	1,133.00 €	1,357.00 €
	750 mm (075)	1,158.00 €	1,382.00 €
	800 mm (080)	1,158.00 €	1,382.00 €
	850 mm (085)	1,183.00 €	1,407.00 €

DC Input

◇Product Number

① Model	③ Direction of Air Coupler for Suction*	Lead Screw Pitch	⑤ Stroke	© Equipped Motor	7 Motor Type	8 Motor Specifications
EZSM4	CR	D	005	AZ	A	K
EZSM3 EZSM4 EZSM6	CL: Left Direction CR: Right Direction	D : 12 mm E : 6 mm	O05: 50 mm O10: 100 mm O15: 150 mm ~ O85: 850 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: DC Input Specifications

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

♦ EZSM3 For Cleanroom Use

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

7 Motor Type (A, M)		Single Shaft (A)	With Electromagnetic Brake (M)
_	50 mm (005)	819.00 €	993.00 €
	100 mm (010)	819.00 €	993.00 €
	150 mm (015)	843.00 €	1,018.00 €
	200 mm (020)	843.00 €	1,018.00 €
	250 mm (025)	868.00 €	1,042.00 €
	300 mm (030)	868.00 €	1,042.00 €
⑤ Stroke	350 mm (035)	894.00 €	1,067.00 €
Slicke	400 mm (040)	894.00 €	1,067.00 €
	450 mm (045)	918.00 €	1,093.00 €
	500 mm (050)	918.00 €	1,093.00 €
	550 mm (055)	943.00 €	1,117.00 €
	600 mm (060)	943.00 €	1,117.00 €
	650 mm (065)	967.00 €	1,142.00 €
	700 mm (070)	967.00 €	1,142.00 €

♦ EZSM4 For Cleanroom Use

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

•			
Motor Type (A, M)		Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (005)	856.00 €	1,030.00 €
	100 mm (010)	856.00 €	1,030.00 €
	150 mm (015)	880.00€	1,055.00 €
	200 mm (020)	880.00€	1,055.00 €
	250 mm (025)	906.00 €	1,080.00 €
	300 mm (030)	906.00 €	1,080.00 €
(5) Stroke	350 mm (035)	931.00 €	1,105.00 €
3 SHOKE	400 mm (040)	931.00 €	1,105.00 €
	450 mm (045)	955.00 €	1,129.00 €
	500 mm (050)	955.00 €	1,129.00 €
	550 mm (055)	981.00 €	1,154.00 €
	600 mm (060)	981.00 €	1,154.00 €
	650 mm (065)	1,005.00 €	1,180.00 €
	700 mm (070)	1,005.00 €	1,180.00 €

♦ EZSM6 For Cleanroom Use

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

Motor Type (A, M)		Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (005)	1,108.00 €	1,333.00 €
	100 mm (010)	1,108.00 €	1,333.00 €
	150 mm (O15)	1,133.00 €	1,357.00 €
	200 mm (020)	1,133.00 €	1,357.00 €
	250 mm (025)	1,158.00 €	1,382.00 €
	300 mm (030)	1,158.00 €	1,382.00 €
	350 mm (035)	1,183.00 €	1,407.00 €
	400 mm (040)	1,183.00 €	1,407.00 €
5 Stroke	450 mm (045)	1,208.00 €	1,432.00 €
	500 mm (050)	1,208.00 €	1,432.00 €
	550 mm (055)	1,232.00 €	1,457.00 €
	600 mm (060)	1,232.00 €	1,457.00 €
	650 mm (065)	1,258.00 €	1,481.00 €
	700 mm (070)	1,258.00 €	1,481.00 €
	750 mm (075)	1,282.00 €	1,506.00 €
	800 mm (080)	1,282.00 €	1,506.00 €
	850 mm (085)	1,307.00 €	1,532.00 €

Electric Linear Slides

CSTEP AZ Serie Equippe EZS

CSTEP
AZ Series
Equipped
FAS

Electric Cylinders

OXSTEP
AZ Series
Equipped
EAC

Driver/ Connection cable

Included

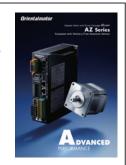
Type	Screws for Fixing	Operating Manual
Common to All Types	M5×45 P0.8 (4 pieces) EZSM6 M5×65 P0.8 (4 pieces)	1 Copy

The drivers and cables are the same as the α

The drivers and cables to be combined with the actuators are the same as the α

 $\pmb{\mathcal{C}}$ Series Brochure is available.

When selecting products, please also use the brochure.



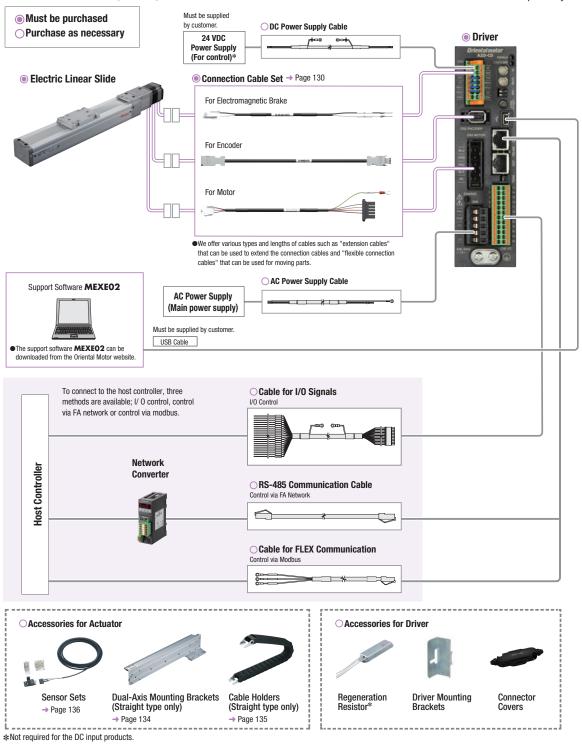
■System Configuration

• When an Electric Linear Slide with Electromagnetic Brake is Combined with a Built-in Controller Type Driver or with a Pulse Input Type Driver with RS-485 Communication

(The AC input and DC input are shown together. The product in the photograph is for AC input.)

An example of a configuration when I/O controlled using a built-in controller type driver or when controlled with RS-485 communication is shown below.

The electric linear slides, drivers, and connection cable sets/flexible connection cable sets must be ordered separately.



●Example of System Configuration Pricing



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

Electric Linear Slides

> CSTEP AZ Serie Equipped

AZ Series Equipped FAS

Electric Cylinders

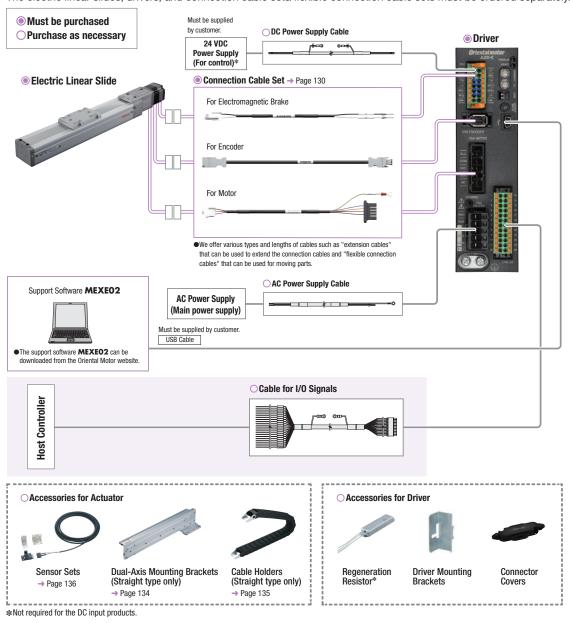
CASTEP AZ Series Equipped EAC

Driver/ Connection cable

The motor cable and electromagnetic brake cable from the motor cannot be connected directly to the driver. When connecting to a driver, use a connection cable.

• When an Electric Linear Slide with Electromagnetic Brake is Combined with a Pulse Input Type Driver (The AC input and DC input are shown together. The product in the photograph is for AC input.)

An example of a single-axis system configuration with the programmable controller (built-in pulse generator function) is shown below. The electric linear slides, drivers, and connection cable sets/flexible connection cable sets must be ordered separately.



●Example of System Configuration Pricing



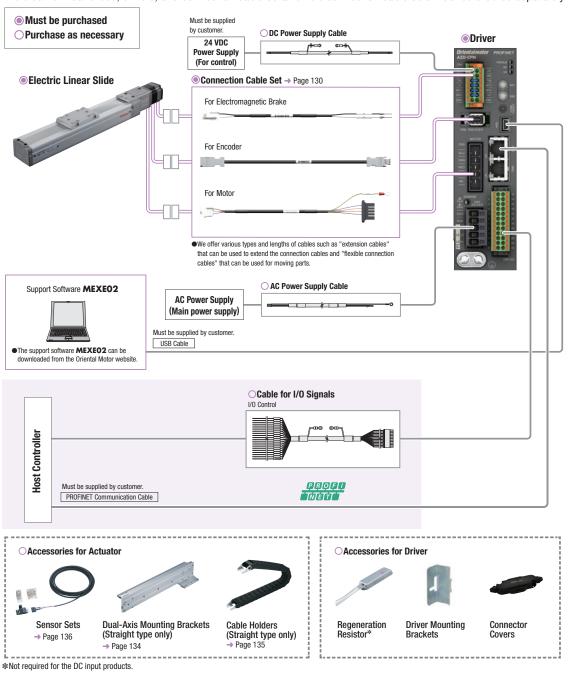
• The system configuration shown above is an example. Other combinations are also available.
Note

The motor cable and electromagnetic brake cable from the motor cannot be connected directly to the driver. When connecting to a driver, use a connection cable.

• When an Electric Linear Slide with Electromagnetic Brake is Combined with a Network Compatible Driver (The AC input and DC input are shown together. The product in the photograph is for AC input.)

An example of a configuration when I/O controlled using an PROFINET Compatible driver or when controlled with PROFINET is shown below.

The electric linear slides, drivers, and connection cable sets/flexible connection cable sets must be ordered separately.



●Example of System Configuration Pricing



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

Electric Linear Slides

> AZ Seri Equippe

AZ Serie Equipped EAS

Electric Cylinders

CSTEP
AZ Series
Equipped
EAC

Driver/ Connection cable

The motor cable and electromagnetic brake cable from the motor cannot be connected directly to the driver. When connecting to a driver, use a connection cable.

Product Number

Model	Motor Orientation*1	Direction of Air Coupler for Suction*2	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EZSM3		CR	D	005	AZ	A	С
EZSM3	L: Reversed Motor Type (Left Side) R: Reversed Motor Type (Right Side) Blank: Straight Type	CL: Left Direction CR: Right Direction	D : 12 mm E : 6 mm	005: 50 mm 010: 100 mm 015: 150 mm 070: 700 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: AC Input Specifications

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

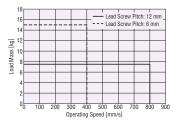
■ Electric Linear Slide Specifications

Lead Screw Pitch mm		1	2	(6	
	Brake (Power off activa	ated	Equipped	Not	Equipped	Not
type)			-4	equipped	-4	equipped
Drive Method				Ball S	Screw	
Repetitive Positi	oning Accuracy	mm		±0	1.02	
Minimum Travel	Amount	mm		0.	01	
Traveling Paralle	lism	mm		0.	03	
Permissible	Dynamic Permissible Moment	- Nm	Mp:4.2 My:4.2 Mp:10.5			5
Moment	Static Permissible Moment	NIII	Mp:26.4 My:26.4 Mn:52.0			
Transportable	Horizontal	ka	7.5	max.	15 ו	nax.
Mass	Vertical	· kg	3.5 max.	_	7 max.	_
Thrust		N	43 г	nax.	86 max.	
Push Force		N	100 20		00	
Holding Force		N	70		140	[125]
	50 to 500 mm		80	00	40	00
Maximum	550 mm		6	50	320	
Speed by	600 mm	mm/s	5	50	270	
Stroke	650 mm		40	60	2:	20
	700 mm		40	00	200	

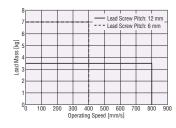
- The brackets [] indicate the value of the reversed motor type.
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.

■Operating Speed – Load Mass

Horizontal Direction Installation (Acceleration 3 m/s²)



Vertical Direction Installation (Acceleration 2 m/s²)



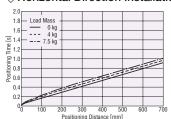
■Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

A reference value for the positioning time can be calculated by multiplying the positioning time calculated from the graph with the positioning time coefficient for the applicable stroke.

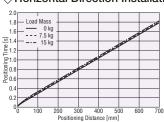
Lead Screw Pitch 12 mm

♦ Horizontal Direction Installation

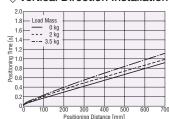


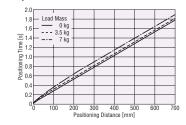
Lead Screw Pitch 6 mm

♦ Horizontal Direction Installation



The starting speed should be 6 mm/s or less.





Positioning Time Coefficient

	Load Mass						
Stroke	Horiz	ontal Dir	rection	Vertical Direction			
[mm]		nstallatio	on		Installati	on	
	0 kg	4 kg	7.5 kg	0 kg	2 kg	3.5 kg	
50 to 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	

Positioning Time Coefficient

	Load Mass						
Stroke [mm]	Horizontal Direction Installation			Vertical Direction Installation			
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg	
50 to 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	

Dimensions Electric Linear Slides → Page 39, 40

EZSM3: Width 54 mm×Height 50 mm Straight Type / Reversed Motor Type / DC Input

Product Number

Model	Motor Orientation*1	Direction of Air Coupler for Suction*2	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EZSM3		CR	D	005	AZ	A	K
EZSM3	L: Reversed Motor Type (Left Side) R: Reversed Motor Type (Right Side) Blank: Straight Type	CL: Left Direction CR: Right Direction	D : 12 mm E : 6 mm	005: 50 mm 010: 100 mm 015: 150 mm 070: 700 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: DC Input Specifications

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

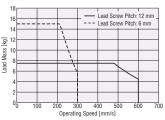
■ Electric Linear Slide Specifications

	io Eiricai o	iiac	Opc	Jiiioa			
Lead Screw Pitc	h	mm	1	2	(6	
Electromagnetic type)	Brake (Power off activa	ated	Equipped	Not equipped	Equipped	Not equipped	
Drive Method				Ball S	Screw		
Repetitive Positi		±0	.02				
Minimum Travel	Amount		0.	01			
Traveling Paralle	elism	mm		0.	03		
Permissible	Dynamic Permissible Moment	· Nm	Mp:4.2 My:4.2 Mr:10.5				
Moment	Static Permissible Moment	NIII	Mp:26.4 My:26.4 Mp:52.0				
Transportable	Horizontal	· kg	7.5 max.		15 max.		
Mass	Vertical	кy	3.5 max.	_	7 max.	_	
Thrust		N	43 ו	nax.	1 88	nax.	
Push Force		N	10	00	20	00	
Holding Force		N	7	0	140	[125]	
	50 to 550 mm		60	00	3(00	
Maximum Spood by	600 mm	· mm/s	5	50	270		
Speed by Stroke	650 mm	11111/5	40	60	220		
Olivito	700 mm		40	00	20	00	

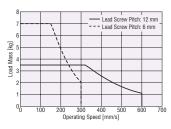
- The brackets [] indicate the value of the reversed motor type.
- For the specifications and characteristics of 48 VDC input, please contact the nearest Oriental
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.
- The maximum speed may be lower depending on the ambient temperature and the length of the

Operating Speed – Load Mass

Horizontal Direction Installation (Acceleration 3 m/s²)



Vertical Direction Installation (Acceleration 2 m/s²)

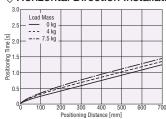


Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

A reference value for the positioning time can be calculated by multiplying the positioning time calculated from the graph with the positioning time coefficient for the applicable stroke.

Lead Screw Pitch 12 mm

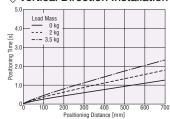


Lead Screw Pitch 6 mm

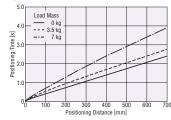
♦ Horizontal Direction Installation



The starting speed should be 6 mm/s or less.



♦ Vertical Direction Installation



Positioning Time Coefficient

	Load Mass							
Stroke [mm]	Horizontal Direction Installation			Vertical Direction Installation				
	0 kg	4 kg	7.5 kg	0 kg	2 kg	3.5 kg		
50 to 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		

Positioning Time Coefficient

ĺ		Load Mass								
	Stroke	Horizo	ntal Dir	ection	Vertical Direction					
	[mm]	Installation			Installation					
		0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg			
	50 to 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			

Electric Cylinders

OXSTEP
AZ Series
Equipped
EAC

Connection

Peripheral Equipment

cable

Product Number

Model	Direction of Air Coupler for Suction*	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EZSM4	CR	D	005	AZ	A	С
EZSM4	CL: Left Direction CR: Right Direction	D : 12 mm E : 6 mm	005: 50 mm 010: 100 mm 015: 150 mm ~ 070: 700 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: AC Input Specifications

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

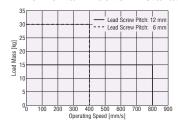
■ Electric Linear Slide Specifications

Lead Screw Pitc	:h	mm	1	2	(6	
Electromagnetic	Brake (Power off activa	ated	Equipped	Not	Equipped	Not	
type)			Lquippeu	equipped	Lquippou	equipped	
Drive Method			Ball Screw				
Repetitive Positi	Repetitive Positioning Accuracy mr				.02		
Minimum Travel	Amount	mm		0.	01		
Traveling Paralle	elism	mm		0.	03		
Permissible Moment	Dynamic Permissible Moment	- Nm	Mp:8.0 My:8.0 Mn:27.8				
	Static Permissible Moment	INIII	Mp:51.2 My:42.5 Mp:176.0				
Transportable	Horizontal	kg	15 max.		1 08	nax.	
Mass	Vertical	· ĸy	7 max.	_	14 max.	_	
Thrust		N	70 r	nax.	140 max.		
Push Force		N	10	00	20	00	
Holding Force		N	7	0	14	40	
	50 to 500 mm		80	00	41	00	
Maximum	550 mm		65	50	3:	20	
Speed by	600 mm	mm/s	55	50	270		
Stroke	650 mm		46	60	220		
	700 mm		40	00	20	00	

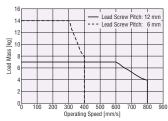
Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.

■Operating Speed – Load Mass

Horizontal Direction Installation (Acceleration 3 m/s²)



Vertical Direction Installation (Acceleration 2 m/s²)



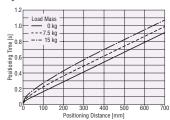
■Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

A reference value for the positioning time can be calculated by multiplying the positioning time calculated from the graph with the positioning time coefficient for the applicable stroke.

Lead Screw Pitch 12 mm

♦ Horizontal Direction Installation

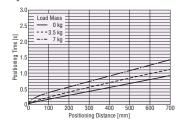


Lead Screw Pitch 6 mm

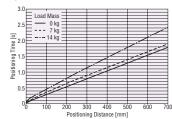
♦ Horizontal Direction Installation



The starting speed should be 6 mm/s or less.



♦ Vertical Direction Installation



Positioning Time Coefficient

	Load Mass							
Stroke [mm]	Horizontal Direction Installation			Vertical Direction Installation				
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg		
50 to 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		

Positioning Time Coefficient

	Load Mass							
Stroke		ntal Dir		Vertical Direction				
[mm]	Installation			ın	stallatio	on		
	0 kg	15 kg	30 kg	0 kg	7 kg	14 kg		
50 to 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		

Dimensions Electric Linear Slides → Page 41

EZSM4: Width 74 mm×Height 50 mm Reversed Motor Type AC Input

Product Number

Model	Motor Orientation	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EZSM4		D	005	AZ	A	С
EZSM4	L: Reversed Motor Type (Left Side) R: Reversed Motor Type (Right Side)	D : 12 mm E : 6 mm	005 : 50 mm 010 : 100 mm 015 : 150 mm ~ 070 : 700 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: AC Input Specifications

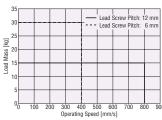
■ Electric Linear Slide Specifications

			•			
Lead Screw Pitc	h	mm	1	2	(6
Electromagnetic type)	Brake (Power off activa	ated	Equipped	Not equipped	Equipped	Not equipped
Drive Method			Ball Screw			
Repetitive Positi	oning Accuracy		±0	0.02		
Minimum Travel	mm		0.	01		
Traveling Paralle	mm		0.	03		
Permissible Moment	Dynamic Permissible Moment	- Nm	Mp:8.0 My:8.0 Mn:27.8			
	Static Permissible Moment	INIII	M _P :51.2 M _Y :42.5 M _R :176.0			
Transportable	Horizontal	- kg	15 max.		1 08	nax.
Mass	Vertical	ĸy	7 max.	_	12.5 max.	_
Thrust		N	70 max.		125 max.	
Push Force		N	10	00	20	00
Holding Force		N	7	0	1:	25
	50 to 500 mm		80	00	40	00
Maximum	550 mm		6	50	3:	20
Speed by	600 mm	mm/s	5	50	270	
Stroke	650 mm		40	60	220	
	700 mm		40	00	20	00

Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.

■Operating Speed – Load Mass

Horizontal Direction Installation (Acceleration 3 m/s²)



Vertical Direction Installation (Acceleration 2 m/s²)



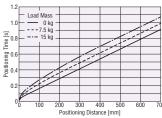
■Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

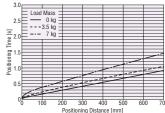
A reference value for the positioning time can be calculated by multiplying the positioning time calculated from the graph with the positioning time coefficient for the applicable stroke.

Lead Screw Pitch 12 mm

♦ Horizontal Direction Installation

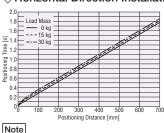


--- 15 kg --- 7 kg



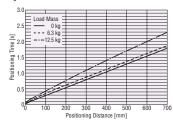
Lead Screw Pitch 6 mm

♦ Horizontal Direction Installation



The starting speed should be 6 mm/s or less.

♦ Vertical Direction Installation



Positioning Time Coefficient

		Load Mass								
Stroke [mm]	:	Horizontal Direction Installation			Vertical Direction Installation					
		0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg			
50 to 50	00	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			

Positioning Time Coefficient

	Load Mass							
Stroke		ntal Dir		Vertical Direction				
[mm]	In	stallatio	on	In	Installation			
	0 kg	15 kg	30 kg	0 kg	6.3 kg	12.5 kg		
50 to 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		

Dimensions Electric Linear Slides → Page 42

Electric Cylinders

OXSTEP
AZ Series
Equipped
EAC

Connection

Peripheral Equipment

cable

Product Number

Model	Direction of Air Coupler for Suction*	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EZSM4	CR	D	005	AZ	A	K
EZSM4	CL: Left Direction CR: Right Direction	D : 12 mm E : 6 mm	005: 50 mm 010: 100 mm 015: 150 mm ~ 070: 700 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C Input Specifications

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

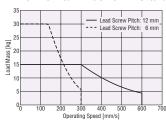
■Electric Linear Slide Specifications

Lead Screw Pito	:h	mm	1	2	(6
Electromagnetic type)	Brake (Power off activa	ated	Equipped	Not equipped	Equipped	Not equipped
Drive Method				Ball S	Screw	
Repetitive Positi	mm		±0	0.02		
Minimum Travel	Amount	mm		0.	01	
Traveling Parallelism				0.	03	
Permissible Moment	Dynamic Permissible Moment	- Nm	Mp:8.0 My:8.0 Mn:27.8			
	Static Permissible Moment	INIII	Mp:51.2 My:42.5 Mr:176.0			
Transportable	Horizontal	lea	15 max.		30 ו	nax.
Mass	Vertical	· kg	7 max.	_	14 max.	_
Thrust		N	70 max.		140 max.	
Push Force		N	10	00	20	00
Holding Force		N	7	0	14	40
	50 to 550 mm		60	00	30	00
Maximum Canad by	600 mm	mm/s	5	50	270	
Speed by - Stroke -	650 mm	111111/5	40	60	220	
	700 mm	-	40	00	20	00

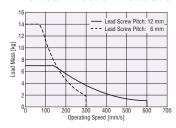
- For the specifications and characteristics of 48 VDC input, please contact the nearest Oriental Motor sales office.
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.
- The maximum speed may be lower depending on the ambient temperature and the length of the motor cable

■Operating Speed – Load Mass

Horizontal Direction Installation (Acceleration 3 m/s²)



Vertical Direction Installation (Acceleration 2 m/s²)



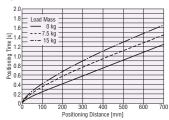
■Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

A reference value for the positioning time can be calculated by multiplying the positioning time calculated from the graph with the positioning time coefficient for the applicable stroke.

Lead Screw Pitch 12 mm

♦ Horizontal Direction Installation



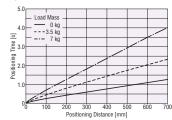
Lead Screw Pitch 6 mm

♦ Horizontal Direction Installation

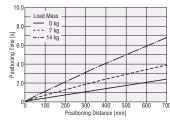


The starting speed should be 6 mm/s or less.

♦ Vertical Direction Installation



\diamondsuit Vertical Direction Installation



Positioning Time Coefficient

	Load Mass								
Stroke [mm]		orizontal Direction Installation			Vertical Direction Installation				
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg			
50 to 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 Time Coefficient

	_							
	Load Mass							
Stroke [mm]	Horizontal Direction Installation			Vertical Direction Installation				
	0 kg	15 kg	30 kg	0 kg	7 kg	14 kg		
50 to 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		

	-		
I)ıma	ancione	Electric Linear Slides -	Dog 41
	511310113	Electric Linear Slides •	🤊 Paue 4 i

EZSM4: Width 74 mm×Height 50 mm Reversed Motor Type DC Input

Product Number

Model	Motor Orientation	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EZSM4		D	005	AZ	Α	K
EZSM4	L: Reversed Motor Type (Left Side) R: Reversed Motor Type (Right Side)	D : 12 mm E : 6 mm	005: 50 mm 010: 100 mm 015: 150 mm 070: 700 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: DC Input Specifications

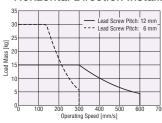
■ Electric Linear Slide Specifications

			-				
Lead Screw Pitc	h	mm	1	2	(6	
Electromagnetic type)	Brake (Power off activa	ated	Equipped	Not equipped	Equipped	Not equipped	
Drive Method				Ball S	Screw		
Repetitive Positioning Accuracy mr				±0	.02		
Minimum Travel	Amount	mm		0.	01		
Traveling Paralle	Traveling Parallelism			0.	03		
Permissible	Dynamic Permissible Moment	Nm	Mp:8.0 My:8.0 Mn:27.8				
Moment	Static Permissible Moment	INIII	Mr:51.2 Mv:42.5 Mr:176.0				
Transportable	Horizontal	kg	151	nax.	1 08	nax.	
Mass	Vertical	кy	7 max.	_	12.5 max.	_	
Thrust		N	70 ו	nax.	125	max.	
Push Force		N	10	00	20	00	
Holding Force		N	7	0	1:	25	
	50 to 550 mm		60	00	30	00	
Maximum Speed by	600 mm	mm/s	5	50	270		
Speed by Stroke	650 mm	11111/5	40	60	2:	20	
	700 mm		40	00	20	00	
	· · · · · · · · · · · · · · · · · · ·						

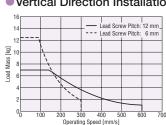
- For the specifications and characteristics of 48 VDC input, please contact the nearest Oriental Motor sales office.
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.
- The maximum speed may be lower depending on the ambient temperature and the length of the motor cable.

■Operating Speed – Load Mass

Horizontal Direction Installation (Acceleration 3 m/s²)



Vertical Direction Installation (Acceleration 2 m/s²)



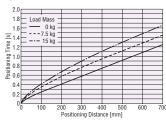
■Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

A reference value for the positioning time can be calculated by multiplying the positioning time calculated from the graph with the positioning time coefficient for the applicable stroke.

Lead Screw Pitch 12 mm

♦ Horizontal Direction Installation



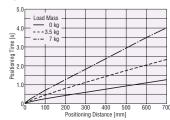
Lead Screw Pitch 6 mm

♦ Horizontal Direction Installation

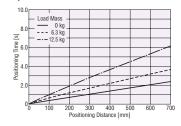


The starting speed should be 6 mm/s or less.

♦ Vertical Direction Installation



♦ Vertical Direction Installation



Positioning Time Coefficient

	Load Mass						
Stroke [mm]	Horizontal Direction Installation			Vertical Direction Installation			
. ,	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg	
50 to 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 Time Coefficient

			Load	Mass			
Stroke	Horizontal Direction Installation			Vertical Direction			
[mm]				II	Installation		
	0 kg	15 kg	30 kg	0 kg	6.3 kg	12.5 kg	
50 to 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	

Electric Cylinders

OXSTEP
AZ Series
Equipped
EAC

Connection

Peripheral Equipment

cable

Product Number

Model	Motor Orientation*1	Direction of Air Coupler for Suction*2	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EZSM6		CR	D	005	AZ	A	С
EZSM6	L: Reversed Motor Type (Left Side) R: Reversed Motor Type (Right Side) Blank: Straight Type	CL: Left Direction CR: Right Direction	D : 12 mm E : 6 mm	005: 50 mm 010: 100 mm 015: 150 mm 0 05: 850 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: AC Input Specifications

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

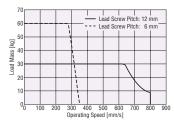
■Electric Linear Slide Specifications

Lead Screw Pitch mm 12 beginner 6 beguipped Not equipped				- 1				
Equipped	Lead Screw Pitc	h	mm	1	2	(6	
Speed by Positioning Force Positioning F	Electromagnetic	Brake (Power off activa	ated	Equipped	Not	Equipped	Not	
Repetitive Positioning Accuracy mm ±0.02	type)			Equippeu	equipped	Equippeu	equipped	
Minimum Travel Amount mm 0.01 mm 0.03 Dynamic Permissible Moment Static Permissible Moment Static Permissible Moment Me:290.0 Me:187.0 Me:355.6 Me:250.0 Me:187.0 Me:340.0 Me:290.0 Me:187.0 Me:290.0 Me:	Drive Method			Ball Screw				
Traveling Parallelism	Repetitive Positioning Accuracy				±0	0.02		
Dynamic Permissible Moment Moreitsible Moment Moreitsible Moment Moreitsible Moment Mre:290.0 Mr:187.0 Mr:330.0 Transportable Mass Horizontal kg 30 max. 60 max. Mass Vertical N 200 max. 400 [360] max. Push Force N 400 500 Holding Force N 200 400 [360] Holding Force N 200 400 [360] Maximum 650 mm 800 400 Speed by 750 mm 640 3300 Stroke 750 mm 470 230 420 200	Minimum Travel	Amount	mm		0.	01		
Permissible Moment Static Permissible Moment Static Permissible Moment Me:290.0 Me:187.0 Me:340.0	Traveling Paralle	Traveling Parallelism			0.	03		
Permissible Moment		Dynamic Permissible			45 7 84 4	27.5.44.55	^	
Moment Static Permissible Moment Me:290.0 Mr:187.0 Mis:340.0 Transportable Mass Horizontal kg 30 max. 60 max. 15 max. − 30 max. − 15 max. − 30 max. − 400 [360] max. Push Force N 400 max. 400 [360] max. − 10 max. − 10 max. − 10 max. −	Permissible	Moment		Mp:45.7 My:37.5 Mp:55.6			.6	
Moment Horizontal Horizon	Moment	Static Permissible	· Nm			07.0 M -040.0		
Mass Vertical kg 15 max. — 30 max. — Thrust N 200 max. 400 [360] max. — Push Force N 400 500 — Holding Force N 200 400 [360] — — 400 — — — 400 — — — 400 — — — — — — 400 — — — — — — 400 —		Moment		IVIP:	290.0 My:1	87.U IVIR:34	10.0	
Nation	Transportable	Horizontal	1	30 max.		1 00	nax.	
Push Force N 400 500 Holding Force N 200 400 [360] 50 to 550 mm 800 400 600 mm 350 Maximum 650 mm 640 300 Speed by 750 mm mm/s 550 260 Stroke 750 mm 470 230 800 mm 420 200	Mass	Vertical	кд	15 max.	_	30 max.	_	
N 200 400 [360]	Thrust		N	200	max.	400 [36	60] max.	
50 to 550 mm 400 600 mm 350 Maximum 650 mm 640 300 Speed by 700 mm mm/s 550 260 Stroke 750 mm 470 230 800 mm 420 200	Push Force		N	4(00	50	00	
Maximum 600 mm 350 Speed by 700 mm 640 300 Stroke 750 mm 470 230 800 mm 420 200	Holding Force		N	20	00	400	[360]	
Maximum 600 mm 650 mm 640 330		50 to 550 mm		0(20	41	00	
Speed by Stroke 700 mm mm/s 550 260 470 230 800 mm 420 200		600 mm		01	JU	3	50	
Stroke 750 mm 470 230 800 mm 420 200	Maximum	650 mm		64	40	30	00	
800 mm 420 200	Speed by	700 mm	mm/s	55	50	20	60	
	Stroke	750 mm		47	70	23	30	
850 mm 360 180		800 mm		42	20	20	00	
		850 mm		36	30	18	80	

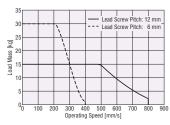
- The brackets [] indicate the value of the reversed motor type.
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.

■Operating Speed – Load Mass

Horizontal Direction Installation (Acceleration 3 m/s²)



Vertical Direction Installation (Acceleration 2 m/s²)



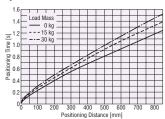
Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

A reference value for the positioning time can be calculated by multiplying the positioning time calculated from the graph with the positioning time coefficient for the applicable stroke.

Lead Screw Pitch 12 mm

♦ Horizontal Direction Installation

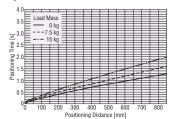


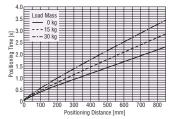
Lead Screw Pitch 6 mm

♦ Horizontal Direction Installation



Note
The starting speed should be 6 mm/s or less.





Positioning Time Coefficient

		Load Mass						
Stroke	Horizo	Horizontal Direction			Vertical Direction			
[mm]	In	Installation			nstallation			
	0 kg	15 kg	30 kg	0 kg	7.5 kg	15 kg		
50 to 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 Time Coefficient

	Load Mass						
Stroke	Horizo	Horizontal Direction			cal Dire	ction	
[mm]	In	Installation			stallatio	n	
	0 kg	30 kg	60 kg	0 kg	15 kg	30 kg	
50 to 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	

Dimensions Electric Linear Slides → Page 43, 44

EZSM6: Width 74 mm×Height 66.5 mm Straight Type / Revo

Straight Type / Reversed Motor Type / For Cleanroom Use

DC Input

Electric Cylinders

CASTEP
AZ Series
Equipped
EAC

Connection

Peripheral Equipment

cable

Product Number

Model	Motor Orientation*1	Direction of Air Coupler for Suction*2	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EZSM6		CR	D	005	AZ	A	K
EZSM6	L: Reversed Motor Type (Left Side) R: Reversed Motor Type (Right Side) Blank: Straight Type	CL: Left Direction CR: Right Direction	D : 12 mm E : 6 mm	005: 50 mm 010: 100 mm 015: 150 mm 0 7 085: 850 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: DC Input Specifications

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

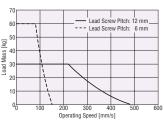
Electric Linear Slide Specifications

	ic Ellicai o								
Lead Screw Pito	:h	mm	1	2	(6			
Electromagnetic type)	Brake (Power off active	ated	Equipped	Not equipped	Equipped	Not equipped			
Drive Method					Screw	cquippeu			
Repetitive Positi		mm			0.02				
Minimum Travel		mm			01				
Traveling Paralle	elism	mm		0.	03				
Permissible	Dynamic Permissible Moment	Nm	N	Np:45.7 My:	Ny:37.5 Mr:55.6				
Moment	Static Permissible Moment	INIII	M _P :	290.0 M _Y :1	187.0 Mr:340.0				
Transportable	Horizontal	kg	3	0	60 max.				
Mass	Vertical	ĸy	15 max.	_	30 max.	_			
Thrust		N	200	max.	400 [36	60] max.			
Push Force		N	40	00	50	00			
Holding Force		N	20	00	400	[360]			
	50 to 650 mm		60	00	30	00			
Maximum	700 mm		5	50	20	60			
Speed by	750 mm	mm/s	4	70	2	30			
Stroke	800 mm		4:	20	20	00			
	850 mm		30	60	180				

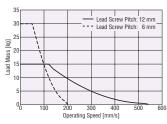
- The brackets [] indicate the specifications for the reversed motor type.
- For the specifications and characteristics of 48 VDC input, please contact the nearest Oriental Motor sales office.
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.
- The maximum speed may be lower depending on the ambient temperature and the length of the motor cable.

■Operating Speed – Load Mass

Horizontal Direction Installation (Acceleration 3 m/s²)



Vertical Direction Installation (Acceleration 2 m/s²)



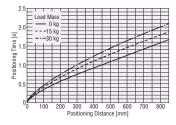
■Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

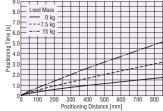
A reference value for the positioning time can be calculated by multiplying the positioning time calculated from the graph with the positioning time coefficient for the applicable stroke.

Lead Screw Pitch 12 mm

♦ Horizontal Direction Installation



♦ Vertical Direction Installation

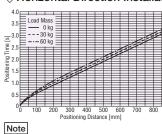


Positioning Time Coefficient

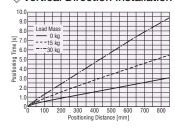
	1 114												
	Load Mass												
Stroke	Horizo	ontal Dir	ection	Verti	cal Dire	ction							
[mm]	In	stallatio	n	In	stallatio	n							
	0 kg	15 kg	30 kg	0 kg	7.5 kg	15 kg							
50 to 650	1.0	1.0	1.0	1.0	1.0	1.0							
700	1.0	1.0	1.0	1.0	1.0	1.0							
750	1.2	1.1	1.0	1.1	1.0	1.0							
800	1.3	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



The starting speed should be 6 mm/s or less.



Positioning Time Coefficient

		_					
				Load	Mass		
	Stroke	Horizo	ntal Dir	ection	Verti	cal Dire	ction
	[mm]	In	stallatio	n	In	stallatio	n
		0 kg	30 kg	60 kg	0 kg	15 kg	30 kg
50) to 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

Dimensions Electric Linear Slides → Page 43, 44

■Electromagnetic Brake Specification

Product Name		EZSM3, EZSM4	EZSM6					
Brake Type		Power Off Ac	tivated Type					
Power Supply Voltage		24 VDC±5%*						
Power Supply Current	Α	0.08 0.25						
Time Rating		Continuous						

^{*}For the type with an electromagnetic brake, a 24 VDC $\pm 4\%$ specification applies if the wiring distance between the motor and driver is extended to 20 m using a cable.

■General Specifications

		AC Input		DC Input	
Thermal Class	1			0 (B) : 105 (A)]	
Insulation Res	istance	places:			
Dielectric Stre	ngth	Sufficient to withstand the following for 1 minut · Case – Motor Windings · Case – Electromagnetic Brake Windings*1	e: 1.5 kVAC, 50 Hz or 60 Hz 1.5 kVAC, 50 Hz or 60 Hz		te: 1.0 kVAC, 50 Hz or 60 Hz 1.0 kVAC, 50 Hz or 60 Hz
Operating	Ambient Temperature		0 to +40°C (N	on-freezing)*3	
Environment	Ambient Humidity		85% or less (N	on-condensing)	
(In operation)	Atmosphere	No corrosive gase	es or dust. The product shou	ld not be exposed to water, oil or other liquids.	
Degree of Pro	tection*2	IP6	faces and connector locations)		
Multiple Rotat in Power OFF	ion Detection Range State		±900 Rotation	(1800 Rotations)	

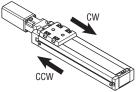
^{*1} Only for products with an electromagnetic brake.

Note

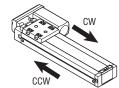
Travel Direction

At the time of shipment, the travel direction of the table is set as follows.





Motor Orientation: Reversed Motor Type



Installation of the Actuator

Note the installation location as the absolute sensor is easily affected by magnetism.

When installing the actuator in an environment where a magnetic field is generated

Make sure that the magnetic flux density on the surface of the absolute sensor does not exceed 10 mT.

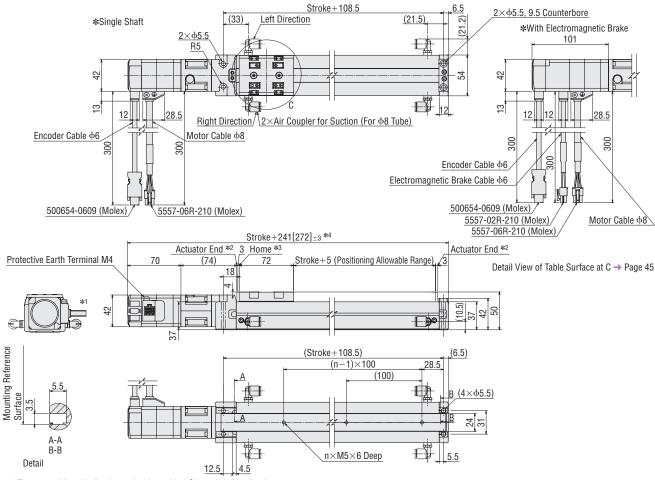
 $[\]ensuremath{\$2}$ Only for motor parts. The degree of protection of the electric linear slide is IP20.

 *3 It is based on Oriental Motor's measurement conditions.

Disconnect the motor and driver when taking an insulation resistance measurement or performing a dielectric voltage withstand test. Also, do not perform these tests on the absolute sensor part of the motor.

Dimensions (Unit: mm)

EZSM3 Straight Type / For Cleanroom Use



- $\ensuremath{\$2}$ During the pushing return-to-home operation, the table moves to actuator end.
- *3 When using an accessory sensor, the home position differs.
- *4 The brackets [] indicate the values for the electromagnetic brake product.
- $\ensuremath{\bullet}$ 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 Coeffic	cient (n)	2	2	3	3	4	4	5	5	6	6	7	7	8	8
	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
Mass [kg]	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 46

Electric Linear Slides

> CLSTEP AZ Serie Equippe

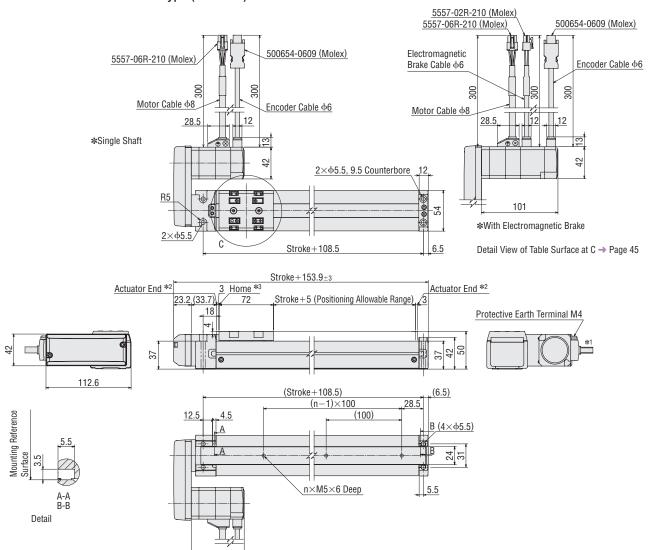
CXSTEP
AZ Series
Equipped
EAS

Electric Cylinders

> CSTEP AZ Series Equipped EAC

Driver/ Connection cable

■ EZSM3 Reversed Motor Type (Left Side)

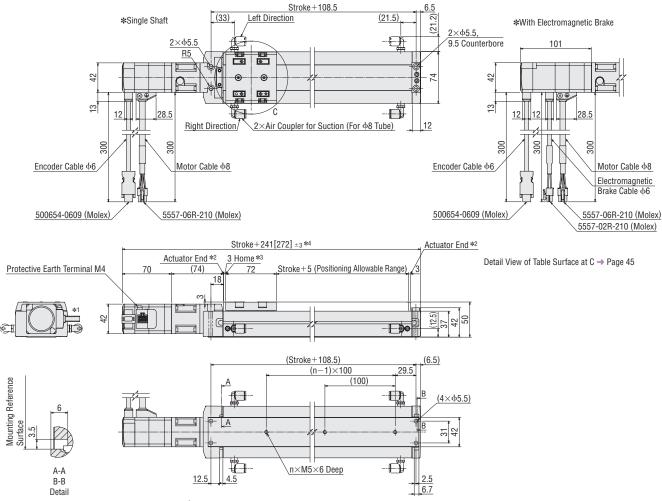


- \$1 The motor cable outlet direction can be changed in 90° intervals in three directions.
- $\ensuremath{\$2}$ During the pushing return-to-home operation, the table moves to actuator end.
- *3 When using an accessory sensor, the home position differs.
- The figure above is for the left reversed motor type. For the right reversed motor type, the motor is located on the opposite side with the slide part center.

	Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700
Hole Coeffi	icient (n)	2	2	3	3	4	4	5	5	6	6	7	7	8	8
	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
Mass [kg]	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 46

EZSM4 Straight Type / For Cleanroom Use



- \$1 The motor cable outlet direction can be changed in 90° intervals in four directions.
- $\ensuremath{\bigstar} 3$ When using an accessory sensor, the home position differs.
- $\blacksquare \text{ The figure above is for Cleanroom Use. Straight type is not equipped with air couplers for suction. }$

	Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700
Hole Coeffi	icient (n)	2	2	3	3	4	4	5	5	6	6	7	7	8	8
	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
Mass [kg]	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 46

Electric Linear Slides

AZ Serie Equippe

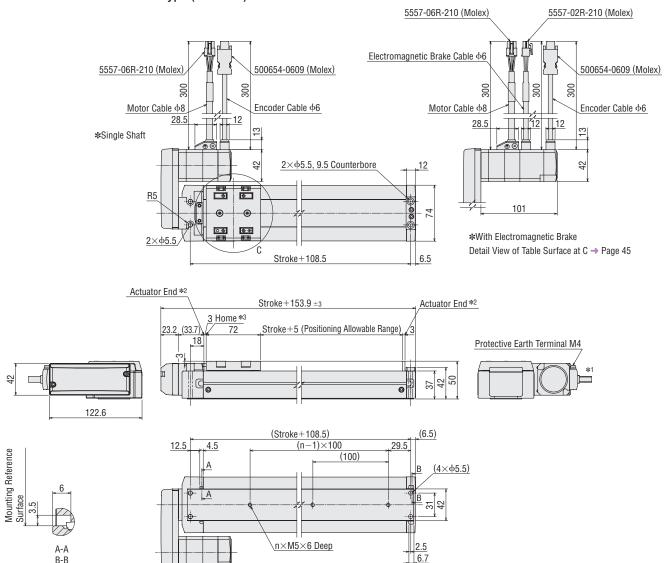
CSTEP
AZ Series
Equipped
EAS

Electric Cylinders

> OCSTEP AZ Series Equipped EAC

Driver/ Connection cable

■ EZSM4 Reversed Motor Type (Left Side)



- *1 The motor cable outlet direction can be changed in 90° intervals in three directions.
- *2 During the pushing return-to-home operation, the table moves to actuator end.
- $*3$ When using an accessory sensor, the home position differs.

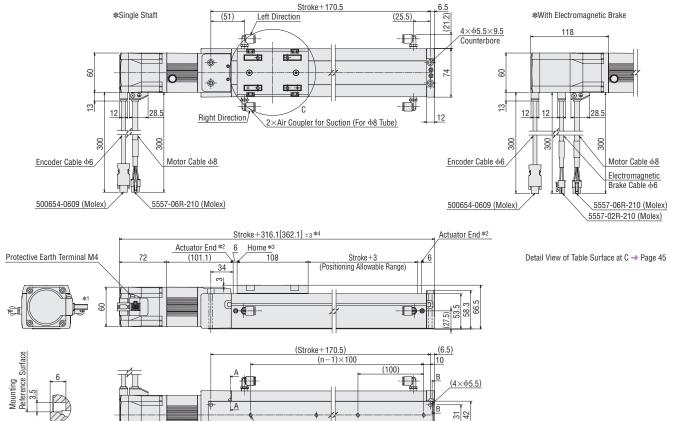
Detail

■ 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 Coeffic	cient (n)	2	2	3	3	4	4	5	5	6	6	7	7	8	8
	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
Mass [kg]	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 46

● EZSM6 Straight Type / For Cleanroom Use



- \$1 The motor cable outlet direction can be changed in 90° intervals in four directions.
- $\ensuremath{\$2}$ During the pushing return-to-home operation, the table moves to actuator end.
- $\ensuremath{\$3}$ When using an accessory sensor, the home position differs.

A-A B-B

Detail

- \$4 The brackets [] indicate the values for the electromagnetic brake product.
- \blacksquare The figure above is for Cleanroom Use. Straight type is not equipped with air couplers for suction.

ħ

 $n \times M_{\underline{5}} \times 6$ Deep

	Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
Hole Coeffi	icient (n)	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
	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
Mass [kg]	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

ullet Dimensions for linear slide installation ullet Page 46

Electric Linear Slides

AZ Serie Equipped EZS

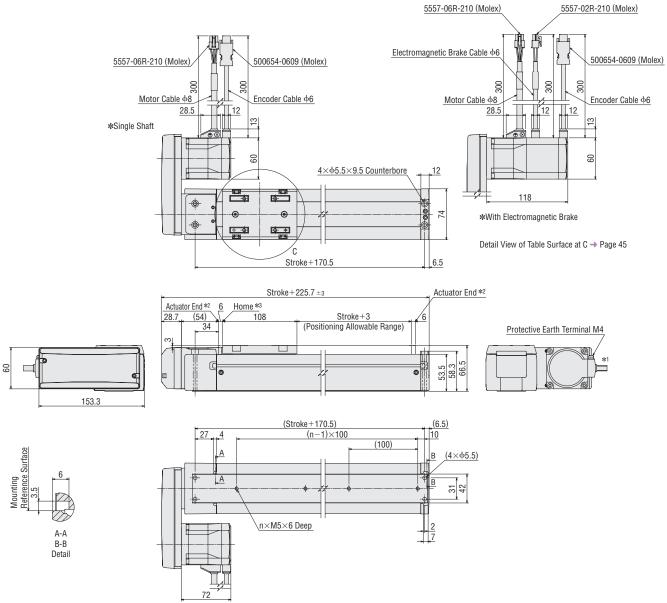
CXSTEP
AZ Series
Equipped
EAS

Electric Cylinders

OXSTEP
AZ Series
Equipped
EAC

Driver/ Connection cable

■ EZSM6 Reversed Motor Type (Left Side)



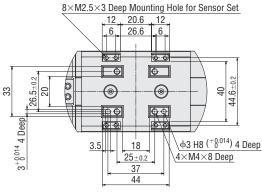
- $\ensuremath{\,{\star}} 1$ The motor cable outlet direction can be changed in 90° intervals in three directions.
- *2 During the pushing return-to-home operation, the table moves to actuator end.
- *3 When using an accessory sensor, the home position differs.
- The figure above is for the left reversed 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 Coeffic	cient (n)	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11
	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
Mass [kg]	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 46

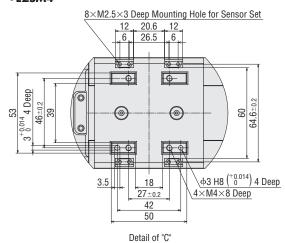
Detail View of Table Surface at C (Unit: mm)

• EZSM3

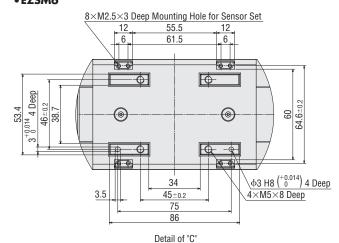


Detail of "C"

• EZSM4



• EZSM6



Electric Linear Slides

AZ Serie Equippe

AZ Series Equipped EAS

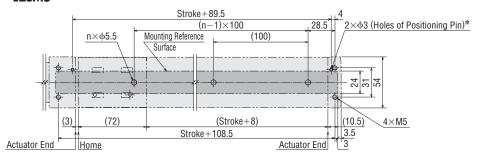
Electric Cylinders

> OXSTEP AZ Series Equipped EAC

Driver/ Connection cable

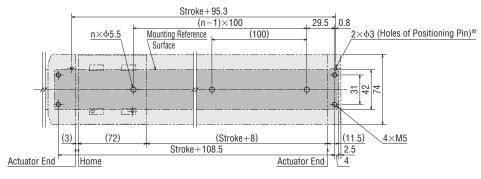
Dimensions for linear slide installation (Unit: mm)

• EZSM3



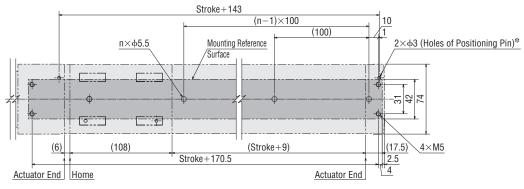
* The mounting reference surface can be set on either side. The above figure assumes that the linear slide is installed on its top surface.

• EZSM4



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

• EZSM6



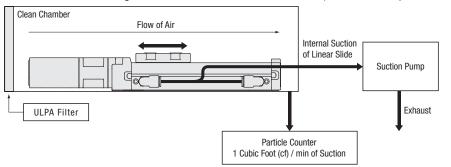
* The mounting reference surface can be set on either side. The above figure assumes that the linear slide is installed on its top surface.

Particulate-Generation Amount of Cleanroom Use

The EZS Series has achieved ISO Standard Class 3 (equivalent to FED Standard Class 1) with improved airtightness through the use of low particulate-generative grease and a stainless steel sheet.

Measurement Method

The method for measuring the level of cleanliness is shown below. (Conforms to Japanese Industrial Standards (JIS) B 9926)



ISO Standards Class 3				
Particle Diameter	Amount of Particle	Ī		
(μm)	Generation [Pieces/m ³]			
0.1	1000 or less			
0.3	102 or less			
0.1	1000 or less			

35 or less

0.5

Electric Cylinders

OXSTEP
AZ Series
Equipped
EAC

Driver/ Connection cable

Peripheral Equipment

Correlation Diagram of Particulate-Generation and Suction Volume (Actual values measured from the sample data) EZSM3CLD050, EZSM3CRD050

100 000 000 Amount of Particle Generation [Pieces/m³] Particle Diameter 0.1 µm or more 10 000 000 Particle Diameter 0.3 µm or more Particle Diameter 0.5 µm or more 1 000 000 100 000 Stroke 500 mm Installation Condition Horizontal 10 000 Operating Speed 800 mm/s Acceleration 20 m/s² 1 000 Load Mass 0 kg 100 Operating Duty 50%

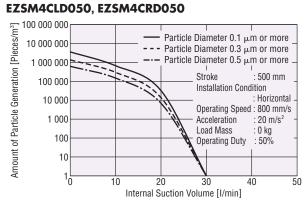
20

Internal Suction Volume [I/min]

30

40

50

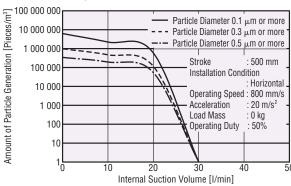


EZSM6CLD050, EZSM6CRD050

10

10

16

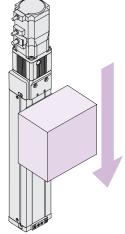


• The product names on the characteristics diagram are listed such that the product names can be determined.

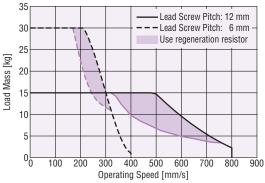
■ About Use of the **EZSM6** (AC Input Type) for Vertical Driving

When operating **EZSM6*** 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 Oriental Motor's **RGB100** regeneration resistor to the driver.

*Common to all AC input specifications of **D** (lead screw pitch 12 mm) / **E** (lead screw pitch 6 mm), Straight / Reversed motor / For cleanroom use.



Example of Vertical Use



Region in which the regeneration resistor is required for **EZSM6** (AC Input Type)

Regeneration Resistor

When a regeneration resistor is connected 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 Product	List Price
RGB100	AC Input Driver	45.00 €

♦ Specifications

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

[•] Install the regeneration resistor in the place which has the same heat radiation capability as heat radiation plate [Material: Aluminum 350 mm × 350 mm, 3 mm thick].

Electric Linear Slides

CLSTEP
AZ Series
Equipped

CASTEP AZ Series Equipped EAS

Electric Cylinders

> CLSTEP AZ Series Equipped EAC

Driver/ Connection cable

EAS Series $lpha_{STEP}$ AZ Series Equipped

Please refer to the Oriental Motor website for technical reference and regulations & standards about this product



The motor component incorporates a high-efficiency, energy-saving **QSTEP AZ** Series electric linear slide. In addition to straight-type actuators, reversed motor types with shorter overall length that can contribute to space saving are also available.

- High performance regardless of operating conditions
- Compactness and high strength for a wide variety of applications
- Easy belt replacement (reversed motor type)

Features

Wide Variety of Products Broadens Equipment Design and Performance

The product line for compact, high accuracy, and high rigidity slides also includes reversed motor types with shorter overall length. Standard motors from the **AZ** Series are equipped. Various products are available.

Motor

ASTEP AZ Series

- Built-in battery-free absolute sensor
- · Positioning information is available without a sensor
- High reliability with closed loop control
- High efficiency technology reduces motor heat generation and saves energy



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.

Electric Linear Slides



lacktriangle This photo shows the **EASM6** (width 75.4 mm imes height 83 mm).

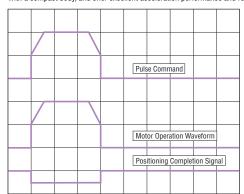
High Performance Regardless of Operating Conditions

A wide range of applications, from low speed to high speed and from light loads to heavy loads. These high-performance electric linear slides are now even easier to use.

Agile Responsiveness

By utilizing the high responsiveness of the stepper motor, quick short distance positioning is possible.

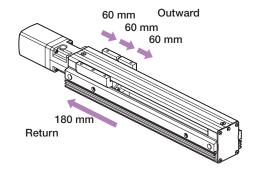
Stepper motors operate synchronously with pulse commands and generate high torque with a compact body, and offer excellent acceleration performance and response.



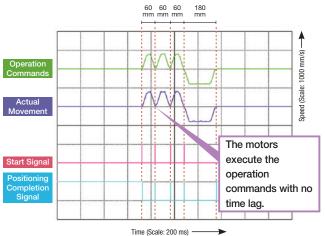
<Product Used>
Product Name: **EASM4**Lead: 12 mm
Input Type: 200 VAC

<Example Operation> Horizontal Load Mass: No load Inching Drive: 60 mm (3 outward), 180 mm (1 return)

Operating Speed: 800 mm/s Acceleration: 20 m/s² (2 G)



Movement of Electric Linear Slide Table Compared to Operation Commands



This contributes to reduced equipment takt time.

Stability at Low Speeds

Thanks to the microstep drive system and smooth drive function*, which come standard, resolution can be improved without mechanical elements such as a speed reduction mechanism. As a result, speed fluctuation is minimal even at low speeds, leading to improved stability.

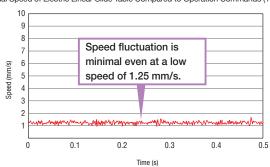
*The smooth drive function automatically implements microstep drive based on the same traveling amount and traveling speed used in the full step mode, without changing the pulse input settings.

<Product Used>
Product Name: **EASM4**Lead: 12 mm
Input Type: 200 VAC

<Example Operation> Horizontal Load Mass: 0.5 kg Running Current: 100% Resolution: 0.01 mm/step Operating Speed: 1.25 mm/s

Low Speed Operation: 1.25 mm/s

Actual Speed of Electric Linear Slide Table Compared to Operation Commands (1.25 mm/s)



Minimal speed fluctuation and suppressed vibration, even at low speeds.

Electric Linear

> AZ Serie Equippe

αsτερ AZ Series Equipped FAS

Electric Cylinders

CASTEP
AZ Series
Equipped
EAC

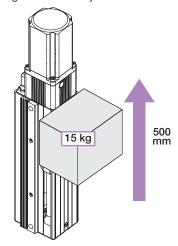
Driver/ Connection cable

High Speed Driving with Light Load or Heavy Load

High speed driving with a light load or heavy load can be achieved, even with inching operation.

<Product Used>
Product Name: **EASM6**Lead: 6 mm
Input Type: 200 VAC

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

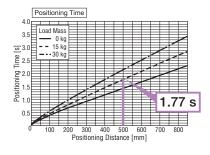


High Speed Driving Even with a Heavy Load

High speed driving is possible, even if a heavy load is being transported vertically.

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)

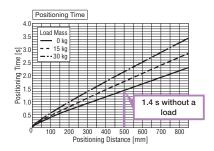


High Speed Driving Even with a Light Load

High speed driving is still possible, even with no load on the return trip.

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)

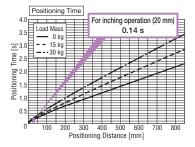


High Speed Driving Even in Inching Operation

High speed driving is still possible, even in inching operation with minute 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)

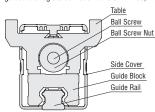


Compactness and High Strength for a Wide Variety of Applications

Compact, High Accuracy, High Rigidity Slides

This is an electric linear slide with a ball screw and an LM guide with ball retainer manufactured by THK*. This slide is suitable for applications where traveling parallelism is required because the highly accurate LM guide is directly installed to customer's enclosure base. (Traveling parallelism of 0.03 mm or less) Although this slider is compact, it is rigid and can transport large masses.

*"Ball retainer" and "LM guide" are registered trademarks of THK Co, Ltd.



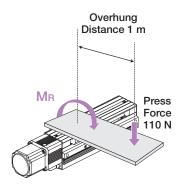
For **EASM6**

- Max. Horizontal Transportable Mass: 60 kg
- Max. Vertical Transportable Mass: 30 kg

♦ Horizontal Installation

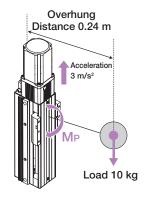
A press force up to 110 N is permissible, even with an overhang length of 1 m.

A load up to 10 kg can be transported, even with an overhang length of 0.24 m.



Static Permissible Moment

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



Dynamic Permissible Moment

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

The press force and load were calculated using the static permissible moment 110.0 Nm and dynamic permissible moment 31.8 Nm for **EASM6**. (Plate weight was not considered.)

Dynamic Permissible Moment [N·m]	Mp(31.8)	My: 10.3	Mr: 40.6
Static Permissible Moment [N·m]	Mp: 86.0	My: 34.0	Mr 110.0

Motor Installation Direction

Product line of reversed type motors. The shorter overall length contributes to space saving.

The straight type and reversed type are the same price.

Straight Type

461.2 mm

Reversed Motor Type

343 mm

*With Electromagnetic Brake

Cable Outlet Direction

Can be rotated in 4 possible directions (3 for reversed motor type)

The motor cable outlet direction can be freely changed.

Because the cable protrudes from the side of the motor, no space behind the motor is needed, further contributing to equipment space saving.



Electric Linear Slides

> AZ Serie Equippe

CSTEP
AZ Series
Equipped
EAS

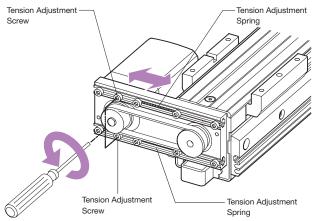
Electric Cylinders

OCSTEP
AZ Series
Equipped
EAC

Driver/ Connection cable

Easy Belt Replacement (Reversed Motor Type)

The belt can easily be replaced with Oriental Motor's unique belt tension adjustment mechanism.



Loosen the screw to adjust the belt to the appropriate tension with spring force.

With Sensor Rails/Without Sensor Rails

With Sensor Rails

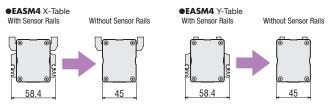
Sensors (sold separately) can be fixed to the sensor rails on the sides of the slider.



Without Sensor Rails

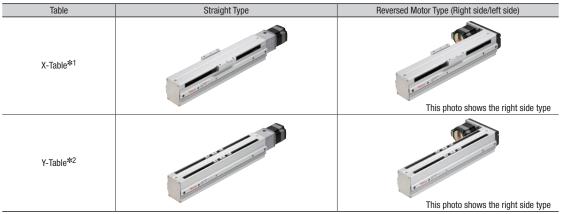
When sensors will not be used or when a sensor is installed somewhere other than the slider, the product without sensor rails is recommended. Space can be reduced and the design can be minimized.





The slider width is reduced by 13 mm

Product Line



• A built-in controller type and pulse input type are available, in both AC Input and DC Input types.

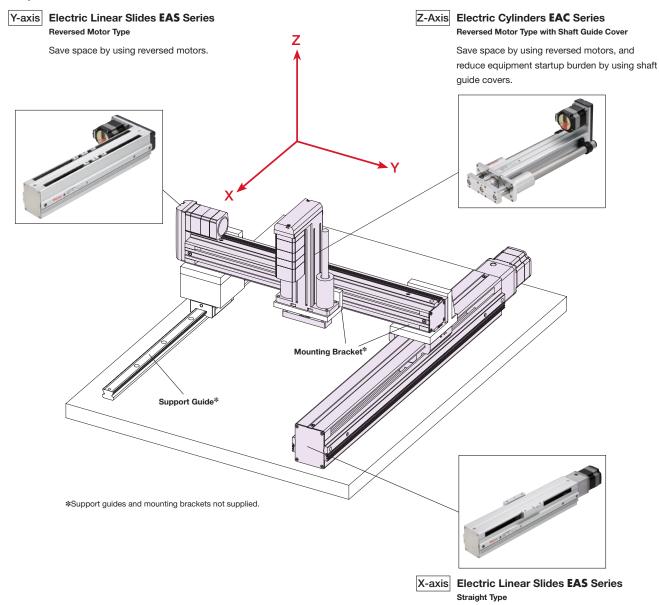
*1 The X-table can mitigate the intrusion of falling foreign particles when installed horizontally.

Drive Table

*2 The Y-table can mitigate the intrusion of falling foreign particles when wall-mounted.



• Image of 3-axis Equipment Using EAS Series Electric Linear Slides on the X- and Y-axes and an EAC Series Electric Cylinder on the Z-axis



Electric Cylinders

OCSTEP
AZ Series
Equipped
EAC

Connection cable

EAS Series α_{STEP} AZ Series Equipped

■ Product Line of Electric Linear Slides

AC Input

◇Product Number

① Model	② Motor Orientation	③ Sensor Rail	Table Orientation	(5) Lead Screw Pitch	6 Stroke	© Equipped Motor	8 Motor Type	9 Motor Specifications
EASM4	L	N	Х	D	005	AZ	A	С
EASM4 EASM6	L: Reversed Motor Type (Left Side) R: Reversed Motor Type (Right Side) Blank: Straight Type	N: Without Sensor Rail Blank: With Sensor Rail	X: X-table Y: Y-table	D : 12 mm E : 6 mm	005: 50 mm 010: 100 mm 015: 150 mm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: AC Input Specifications

♦ EASM4 Straight Type / Revered Motor Type

The prices are the same even if ② Motor Orientation (L, R, Blank), ③ Sensor Rail (N, Blank), ④ Table Orientation (X, Y), ⑤ Lead Screw Pitch (D, E) are different.

® Motor Type (A , M)		Single Shaft (A)	With Electromagnetic Brake (M)	
	50 mm (005)	730.00 €	904.00 €	
	100 mm (010)	730.00 €	904.00 €	
	150 mm (O15)	758.00 €	932.00 €	
	200 mm (020)	758.00 €	932.00 €	
	250 mm (025)	778.00 €	959.00 €	
	300 mm (030)	778.00 €	959.00 €	
6 Stroke	350 mm (035)	805.00 €	976.00 €	
© Stroke	400 mm (040)	805.00 €	976.00 €	
	450 mm (045)	832.00 €	1,003.00 €	
	500 mm (050)	832.00 €	1,003.00 €	
	550 mm (055)	851.00 €	1,029.00 €	
	600 mm (060)	851.00 €	1,029.00 €	
	650 mm (065)	878.00 €	1,056.00 €	
	700 mm (070)	878.00 €	1,056.00 €	

♦ EASM6 Straight Type / Revered Motor Type

The prices are the same even if ② Motor Orientation (**L**, **R**, Blank), ③ Sensor Rail (**N**, Blank), ④ Table Orientation (**X**, **Y**), ⑤ Lead Screw Pitch (**D**, **E**) are different.

® Motor Type (A , M)		Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (005)	981.00 €	1,209.00 €
	100 mm (010)	981.00 €	1,209.00 €
	150 mm (015)	1,008.00 €	1,236.00 €
	200 mm (020)	1,008.00 €	1,236.00 €
	250 mm (025)	1,036.00 €	1,252.00 €
	300 mm (030)	1,036.00 €	1,252.00 €
	350 mm (035)	1,056.00 €	1,280.00 €
	400 mm (040)	1,056.00 €	1,280.00 €
6 Stroke	450 mm (045)	1,082.00 €	1,307.00 €
	500 mm (050)	1,082.00 €	1,307.00 €
	550 mm (055)	1,110.00 €	1,333.00 €
	600 mm (060)	1,110.00 €	1,333.00 €
	650 mm (065)	1,137.00 €	1,361.00 €
	700 mm (070)	1,137.00 €	1,361.00 €
	750 mm (075)	1,155.00 €	1,387.00 €
	800 mm (080)	1,155.00 €	1,387.00 €
	850 mm (085)	1,182.00 €	1,402.00 €

DC Input

◇Product Number

① Model	(2) Motor Orientation	③ Sensor Rail	Table Orientation	5 Lead Screw Pitch	6 Stroke	(7) Equipped Motor	8 Motor Type	9 Motor Specifications
EASM4	L	N	X	D	005	AZ	Α	K
EASM2 EASM4 EASM6	L: Reversed Motor Type (Left Side) R: Reversed Motor Type (Right Side) Blank: Straight Type	N: Without Sensor Rail Blank: With Sensor Rail	X: X-table Y: Y-table	D: 12 mm E: 6 mm F: 3 mm	005: 50 mm 010: 100 mm 015: 150 mm ~ 085: 850 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: DC Input Specifications

♦ EASM2 Straight Type

The prices are the same even if \odot Sensor Rail (**N**, Blank), \oplus Table Orientation (**X**, **Y**), \odot Lead Screw Pitch (**E**, **F**) are different.

	50 mm (005)	651.00 €
	100 mm (010)	651.00 €
6 Stroke	150 mm (O15)	676.00 €
	200 mm (020)	676.00 €
	250 mm (025)	700.00 €
	300 mm (030)	700.00 €

♦ EASM4 Straight Type / Revered Motor Type

The prices are the same even if ② Motor Orientation (L, R, Blank), ③ Sensor Rail (N, Blank), ④ Table Orientation (X, Y), ⑤ Lead Screw Pitch (D, E) are different.

8 Motor Type (A, M)		Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (005)	730.00 €	904.00 €
_	100 mm (010)	730.00 €	904.00 €
_	150 mm (015)	758.00 €	932.00 €
_	200 mm (020)	758.00 €	932.00 €
_	250 mm (025)	778.00 €	959.00 €
_	300 mm (030)	778.00 €	959.00 €
- Ctroles	350 mm (035)	805.00 €	976.00 €
6 Stroke -	400 mm (040)	805.00 €	976.00 €
_	450 mm (045)	832.00 €	1,003.00 €
_	500 mm (050)	832.00 €	1,003.00 €
_	550 mm (055)	851.00 €	1,029.00 €
_	600 mm (060)	851.00 €	1,029.00 €
_	650 mm (065)	878.00 €	1,056.00 €
_	700 mm (070)	878.00 €	1,056.00 €

♦ EASM6 Straight Type / Revered Motor Type

The prices are the same even if ② Motor Orientation (**L**, **R**, Blank), ③ Sensor Rail (**N**, Blank), ④ Table Orientation (**X**, **Y**), ⑤ Lead Screw Pitch (**D**, **E**) are different.

® Motor Type (A, M)		Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (005)	981.00 €	1,209.00 €
	100 mm (010)	981.00 €	1,209.00 €
	150 mm (015)	1,008.00 €	1,236.00 €
	200 mm (020)	1,008.00 €	1,236.00 €
	250 mm (025)	1,036.00 €	1,252.00 €
_	300 mm (030)	1,036.00 €	1,252.00 €
	350 mm (035)	1,056.00 €	1,280.00 €
	400 mm (040)	1,056.00 €	1,280.00 €
6 Stroke	450 mm (045)	1,082.00 €	1,307.00 €
	500 mm (050)	1,082.00 €	1,307.00 €
	550 mm (055)	1,110.00 €	1,333.00 €
	600 mm (060)	1,110.00 €	1,333.00 €
	650 mm (065)	1,137.00 €	1,361.00 €
	700 mm (070)	1,137.00 €	1,361.00 €
	750 mm (075)	1,155.00 €	1,387.00 €
	800 mm (080)	1,155.00 €	1,387.00 €
	850 mm (085)	1,182.00 €	1,402.00 €

Electric Linear Slides

> AZ Serie Equipped EZS

CLSTEP AZ Series Equipped EAS

Electric Cylinders

> CSTEP AZ Series Equipped EAC

Driver/ Connection cable

Included

Туре	Included	Operating Manual
Comi	non to All Types	1 Copy

The drivers and cables to be combined with the actuators are the same as the α Series.

О*step* **AZ** Series brochure is available.

When selecting products, please also use the brochure.



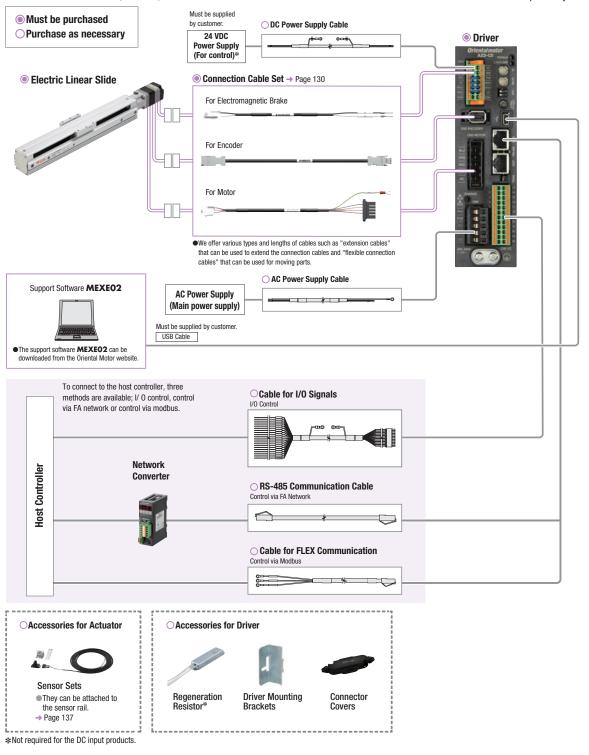
System Configuration

 When an Electric Linear Slide with Electromagnetic Brake is Combined with a Built-in Controller Type Driver or with a Pulse Input Type Driver with RS-485 Communication

(The AC input and DC input are shown together. The product in the photograph is for AC input.)

An example of a configuration when I/O controlled using a built-in controller type driver or when controlled with RS-485 communication is shown below.

The electric linear slides, drivers, and connection cable sets/flexible connection cable sets must be ordered separately.



●Example of System Configuration Pricing



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

Electric Linear Slides

> AZ Series Equipped EZS

AZ Series Equipped EAS

Electric Cylinders

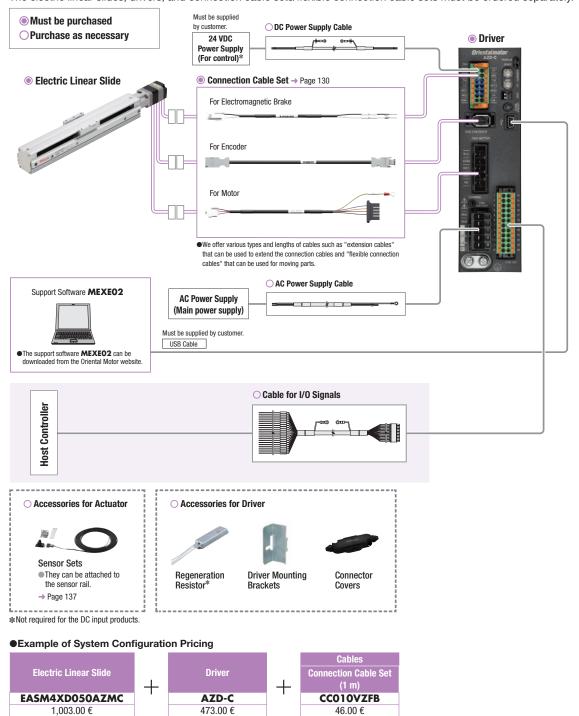
CXSTEP
AZ Series
Equipped
EAC

Driver/ Connection cable

The motor cable and electromagnetic brake cable from the motor cannot be connected directly to the driver. When connecting to a driver, use a connection cable.

• When an Electric Linear Slide with Electromagnetic Brake is Combined with a Pulse Input Type Driver (The AC input and DC input are shown together. The product in the photograph is for AC input.)

An example of a single-axis system configuration with the programmable controller (built-in pulse generator function) is shown below. The electric linear slides, drivers, and connection cable sets/flexible connection cable sets must be ordered separately.



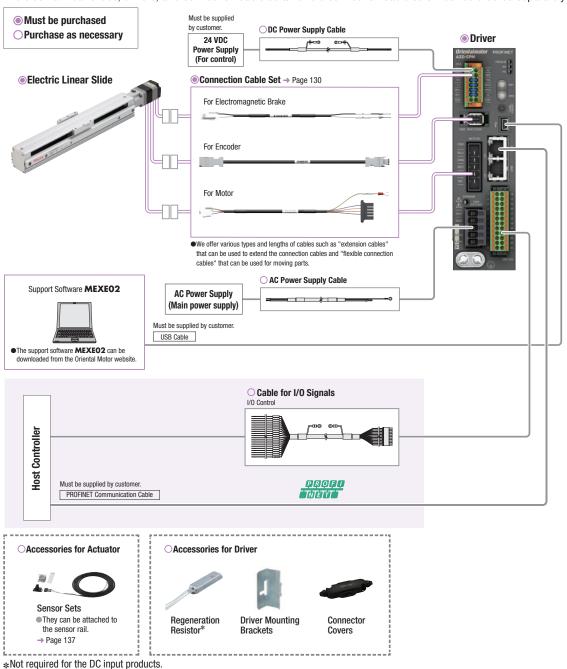
[•] The system configuration shown above is an example. Other combinations are also available.
Note

The motor cable and electromagnetic brake cable from the motor cannot be connected directly to the driver. When connecting to a driver, use a connection cable.

• When an Electric Linear Slide with Electromagnetic Brake is Combined with a Network Compatible Driver (The AC input and DC input are shown together. The product in the photograph is for AC input.)

An example of a configuration when I/O controlled using an PROFINET Compatible driver or when controlled with PROFINET is shown below.

The electric linear slides, drivers, and connection cable sets/flexible connection cable sets must be ordered separately.





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

Electric Linear Slides

> AZ Serie Equippe EZS

CLSTEP
AZ Series
Equipped
FAS

Electric Cylinders

CSTEP
AZ Series
Equipped
EAC

Driver/ Connection cable

The motor cable and electromagnetic brake cable from the motor cannot be connected directly to the driver. When connecting to a driver, use a connection cable.

EASM2: Width 30 mm × Height 38 mm Straight Type DC Input

Product Number

Model	Sensor Rail	Table Orientation	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EASM2	N	X	E	005	AZ	Α	K
EASM2	N: Without Sensor Rail Blank: With Sensor Rail	X: X-table Y: Y-table	E :6 mm F :3 mm	005 : 50 mm 010 : 100 mm 015 : 150 mm ~ 030 : 300 mm (50 mm increment)	AZ Series	A: Single Shaft	K: DC Input Specifications

■ Electric Linear Slide Specifications

Lead Screw Pitch		mm	6	3		
Electromagnetic Brake	(Power Off Activated		Not eq	uinned		
Type)			Not oq			
Drive Method			Ball Screw			
Repetitive Positioning	Accuracy	mm	±0.02			
Minimum Travel Amou	nt	mm	0.01			
Traveling Parallelism		mm	0.03			
Permissible Moment	Dynamic Permissible Moment	— Nm -	Mp: 2.4 My:	1.5 Mr: 4.6		
remissible Montent	Static Permissible Moment	INIII	Mp: 4.0 My:	4.0 Mr: 7.7		
Transportable Mass	Horizontal	ka	7.5 max.	15 max.		
Halispulable Mass	Vertical	– kg	2.5 max.	5 max.		
Thrust		N	25 max.	50 max.		
Push Force		N	40 80			
Holding Force		N	25 50			
Maximum Speed		mm/s	300	150		

Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction.

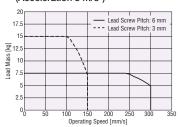
When the product is used for operation in the vertical direction, provide protection external to the equipment.

• The maximum speed may decrease depending on the ambient temperature or the length of the motor cable.

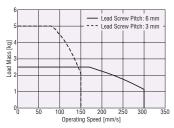
Operating Speed – Load Mass

Horizontal Direction Installation

(Acceleration 3 m/s²)



Vertical Direction Installation (Acceleration 2 m/s²)

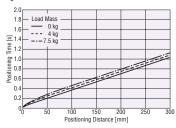


Positioning Distance – Positioning Time

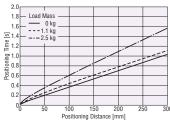
The positioning time (reference) can be checked from the positioning distance.

Lead Screw Pitch 6 mm

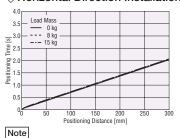
♦ Horizontal Direction Installation

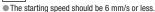


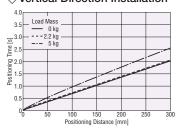
♦ Vertical Direction Installation



Lead Screw Pitch 3 mm **♦** Horizontal Direction Installation ♦ Vertical Direction Installation







Dimensions

Electric Linear Slides → Page 71, 72

EASM4: Width 45 mm × Height 60 mm Straight Type AC Input

Product Number

Model	Sensor Rail	Table Orientation	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EASM4	N	X	D	005	AZ	Α	С
EASM4	N: Without Sensor Rail Blank: With Sensor Rail	X: X-table Y: Y-table	D : 12 mm E : 6 mm	005 : 50 mm 010 : 100 mm 015 : 150 mm ~ 070 : 700 mm (50 mm increment)	AZ Series	A: Single Shaft M: Electromagnetic Brake	C: AC Input Specifications

■ Electric Linear Slide Specifications

Lead Screw Pitch		mm	1	2		3
Electromagnetic Brake Type)	(Power Off Activated		Equipped	Not equipped	Equipped	Not equipped
Drive Method				Ball S	Screw	
Repetitive Positioning	Repetitive Positioning Accuracy			±0	.02	
Minimum Travel Amou	nt	mm		0.	01	
Traveling Parallelism		mm		0.	03	
Permissible Moment	Dynamic Permissible Moment	N	Mp: 16.3 My: 4.8 Mr: 15.0			
	Static Permissible Moment	– Nm	Mr: 58.3 Mv: 16.0 Mr: 53.3			
Transportable Mass	Horizontal	ka	15 max.		30 ı	nax.
Transportable Mass	Vertical	– kg	7 max.	_	14 max.	_
Thrust		N	70 r	nax.	140 max.	
Push Force		N	10	00	2	00
Holding Force		N	7	0	14	40
	50 to 500 mm		80	00	41	00
Marrian Canad	550 mm	_	65	50	320	
Maximum Speed by Stroke	600 mm	mm/s	550		270	
ру этгоке -	650 mm	_	46	60	220	
	700 mm	_	400		21	00

Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.

■Operating Speed – Load Mass

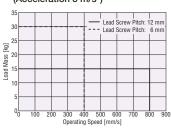
Electric Cylinders

OXSTEP
AZ Series
Equipped
EAC

Connection cable

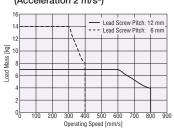
Peripheral Equipment

Horizontal Direction Installation (Acceleration 3 m/s²)



Vertical Direction Installation

(Acceleration 2 m/s²)



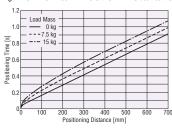
Positioning Distance – Positioning Time

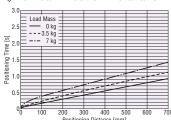
The positioning time (reference) can be checked from the positioning distance.

A reference value for the positioning time can be calculated by multiplying the positioning time calculated from the graph with the positioning time coefficient for the applicable stroke.

Lead Screw Pitch 12 mm

♦ Horizontal Direction Installation





Positioning Time Coefficient

	Load Mass								
Stroke [mm]		Horizontal Direction Installation			Vertical Direction Installation				
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg			
50 to 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			

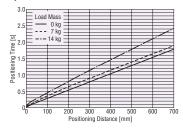
Lead Screw Pitch 6 mm

♦ Horizontal Direction Installation



The starting speed should be 6 mm/s or less.

∨Vertical Direction Installation



Positioning Time Coefficient

	Load Mass								
Stroke [mm]		Horizontal Direction Installation			Vertical Direction Installation				
	0 kg	15 kg	30 kg	0 kg	7 kg	14 kg			
50 to 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			

Dimensions Electric Linear Slides → Page 73, 75

EASM4: Width 45 mm × Height 60 mm Revered Motor Type AC Input

Product Number

Model	Motor Orientation	Sensor Rail	Table Orientation	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EASM4	L	N	X	D	005	AZ	A	С
EASM4	L: Reversed Motor Type (Left Side) R: Reversed Motor Type (Right Side)	N: Without Sensor Rail Blank: With Sensor Rail	X: X-table Y: Y-table	D : 12 mm E : 6 mm	005 : 50 mm 010 : 100 mm 015 : 150 mm ~ 070 : 700 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: AC Input Specifications

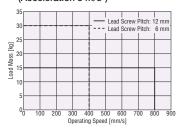
■Electric Linear Slide Specifications

Lead Screw Pitch		mm	1	2	(3
Electromagnetic Brake Type)	(Power Off Activated		Equipped	Not equipped	Equipped	Not equipped
Drive Method				Ball S	Screw	
Repetitive Positioning	Accuracy	mm		±0	.02	
Minimum Travel Amou	nt	mm		0.	01	
Traveling Parallelism		mm		0.	03	
Permissible Moment	Dynamic Permissible Moment	N	Me: 16.3 My: 4.8 Ma: 15.0			
	Static Permissible Moment	– Nm	Mr: 58.3 Mv: 16.0 Mr: 53.3			
Transportable Mass	Horizontal	lea.	15 max.		1 OE	nax.
Transportable Mass	Vertical	– kg	7 max.	_	12.5 max.	_
Thrust		N	70 ו	nax.	125	max.
Push Force		N	10	00	20	00
Holding Force		N	7	0	12	25
	50 to 500 mm		80	00	40	00
Marrian Canad	550 mm	_	6	50	320	
Maximum Speed by Stroke	600 mm	mm/s	550		270	
ру Stroke -	650 mm	_	41	60	220	
	700 mm		400		20	00

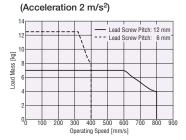
Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.

■Operating Speed – Load Mass

Horizontal Direction Installation (Acceleration 3 m/s²)



Vertical Direction Installation

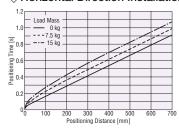


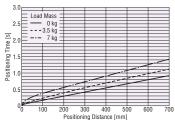
Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

A reference value for the positioning time can be calculated by multiplying the positioning time calculated from the graph with the positioning time coefficient for the applicable stroke.

Lead Screw Pitch 12 mm



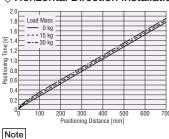


Positioning Time Coefficient

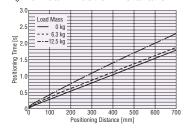
	Load Mass								
Stroke [mm]		Horizontal Direction Installation			Vertical Direction Installation				
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg			
50 to 500	1.0	1.0	1.0	1.0	1.0	1.0			
550	1.2	1.1	1.1	1.2	1.0	1.0			
600	1.4	1.3	1.2	1.4	1.2	1.0			
650	1.7	1.5	1.4	1.7	1.4	1.2			
700	1.9	1.8	1.6	1.9	1.6	1.3			

Lead Screw Pitch 6 mm

♦ Horizontal Direction Installation



The starting speed should be 6 mm/s or less.



Positioning Time Coefficient

Load Mass								
Horizontal Direction Installation			Vertical Direction Installation					
0 kg	15 kg	30 kg	0 kg	6.3 kg	12.5 kg			
1.0	1.0	1.0	1.0	1.0	1.0			
1.2	1.2	1.2	1.2	1.2	1.0			
1.5	1.4	1.4	1.5	1.4	1.2			
1.8	1.7	1.7	1.8	1.7	1.4			
2.0	1.9	1.9	2.0	1.9	1.6			
	0 kg 1.0 1.2 1.5	Installatio 0 kg	Horizontal Direction Installation 0 kg	Horizontal Direction Installation 0 kg	Horizontal Direction Installation			

Dimensions Electric Linear Slides → Page 74, 76

EASM4: Width 45 mm × Height 60 mm Straight Type DC Input

Product Number

Model	Sensor Rail	Table Orientation	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EASM4	N	X	D	005	AZ	Α	K
EASM4	N: Without Sensor Rail Blank: With Sensor Rail	X: X-table Y: Y-table	D : 12 mm E : 6 mm	O05: 50 mm O10: 100 mm O15: 150 mm ~ O70: 700 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: DC Input Specifications

■Electric Linear Slide Specifications

Lead Screw Pitch		mm	1	2		<u> </u>
Electromagnetic Brake Type)	(Power Off Activated		Equipped	Not equipped	Equipped	Not equipped
Drive Method	Ball Screw					
Repetitive Positioning	Accuracy	mm		±0	.02	
Minimum Travel Amou	nt	mm		0.	01	
Traveling Parallelism		mm		0.	03	
Permissible Moment	Dynamic Permissible Moment	— Nm	Mr: 16.3 Mv: 4.8 Mr: 15.0			
	Static Permissible Moment	— INIII	Mp: 58.3 My: 16.0 Mp: 53.3			
Transportable Mass	Horizontal	lea.	15 max.		30 max.	
Transportable Mass	Vertical	– kg	7 max.	_	14 max.	_
Thrust		N	70 r	nax.	140	max.
Push Force		N	10	00	2	00
Holding Force		N	7	0	14	40
	50 to 550 mm		60	00	3	00
Maximum Speed	600 mm	— mm/a	550		270	
by Stroke	650 mm	— mm/s	46	60	220	
	700 mm	_	400		200	

- For specifications and characteristics of 48 VDC input products, contact your nearest sales office.
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.
- The maximum speed may decrease depending on the ambient temperature or the length of the motor cable.

■Operating Speed – Load Mass

Electric Cylinders

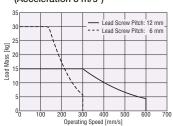
OXSTEP
AZ Series
Equipped
EAC

Connection cable

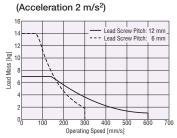
Peripheral

Equipment

Horizontal Direction Installation (Acceleration 3 m/s²)



Vertical Direction Installation

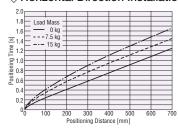


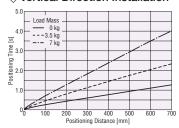
■Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

A reference value for the positioning time can be calculated by multiplying the positioning time calculated from the graph with the positioning time coefficient for the applicable stroke.

Lead Screw Pitch 12 mm



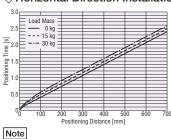


Positioning Time Coefficient

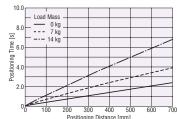
	Load Mass								
Stroke [mm]	Horizontal Direction Installation			Vertical Direction Installation					
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg			
50 to 550	1.0	1.0	1.0	1.0	1.0	1.0			
600	1.1	1.0	1.0	1.1	1.0	1.0			
650	1.2	1.1	1.1	1.2	1.0	1.0			
700	1.4	1.3	1.2	1.4	1.0	1.0			

Lead Screw Pitch 6 mm

♦ Horizontal Direction Installation



The starting speed should be 6 mm/s or less.



Positioning Time Coefficient

3									
	Load Mass								
Stroke [mm]	Horizontal Direction Installation			Vertical Direction Installation					
	0 kg	15 kg	30 kg	0 kg	7 kg	14 kg			
50 to 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			

EASM4: Width 45 mm × Height 60 mm Revered Motor Type DC Input

Product Number

Model	Motor Orientation	Sensor Rail	Table Orientation	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EASM4	L	N	X	D	005	AZ	A	K
EASM4	L: Reversed Motor Type (Left Side) R: Reversed Motor Type (Right Side)	N: Without Sensor Rail Blank: With Sensor Rail	X: X-table Y: Y-table	D : 12 mm E : 6 mm	005 : 50 mm 010 : 100 mm 015 : 150 mm ~ 070 : 700 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: DC Input Specifications

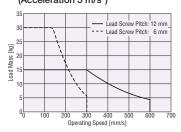
■ Electric Linear Slide Specifications

Lead Screw Pitch		mm	1	2	(
Electromagnetic Brake Type)	(Power Off Activated		Equipped	Not equipped	Equipped	Not equipped
Drive Method				Ball S	Screw	
Repetitive Positioning	Repetitive Positioning Accuracy			±0	.02	
Minimum Travel Amount				0.	01	
Traveling Parallelism	mm		0.	03		
Pormissible Memont	Dynamic Permissible Moment	– Nm	Me: 16.3 My: 4.8 Mr: 15.0			
Permissible Moment	Static Permissible Moment	- IVIII	M _P : 58.3 M _Y : 16.0 M _R : 53.3			
Transportable Mass	Horizontal	ka	15 max.		30 max.	
Hallsportable Mass	Vertical	– kg	7 max.	_	12.5 max.	_
Thrust		N	70 r	max.	125 max.	
Push Force		N	10	00	20	00
Holding Force		N	7	0	12	25
	50 to 550 mm		60	00	30	00
Maximum Speed	600 mm	– – mm/s	55	50	270	
by Stroke	650 mm	- 11111/8	46	60	220	
	700 mm		40	00	200	

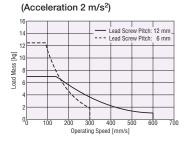
- For specifications and characteristics of 48 VDC input products, contact your nearest sales office.
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.
- The maximum speed may decrease depending on the ambient temperature or the length of the motor cable.

Operating Speed – Load Mass

Horizontal Direction Installation (Acceleration 3 m/s²)



Vertical Direction Installation

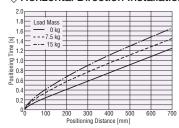


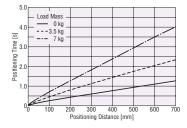
Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

A reference value for the positioning time can be calculated by multiplying the positioning time calculated from the graph with the positioning time coefficient for the applicable stroke.

Lead Screw Pitch 12 mm



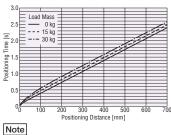


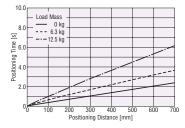
Positioning Time Coefficient

	Load Mass								
Stroke [mm]	Horizontal Direction Installation			Vertical Direction Installation					
	0 kg	0 kg 7.5 kg 15 kg			3.5 kg	7 kg			
50 to 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





Positioning Time Coefficient

S .									
	Load Mass								
Stroke [mm]	Horizontal Direction Installation 0 kg 15 kg 30 kg			Vertical Direction Installation					
				0 kg	6.3 kg	12.5 kg			
50 to 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			

The starting speed should be 6 mm/s or less.

EASM6: Width 62 mm × Height 83 mm Revered Motor Type

Straight Type

AC Input

Electric Cylinders

OXSTEP
AZ Series
Equipped
EAC

Connection cable

Peripheral

Equipment

Product Number

Model	Motor Orientation	Sensor Rail	Table Orientation	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EASM6	L	N	X	D	005	AZ	A	C
EASM6	L: Reversed Motor Type (Left Side) R: Reversed Motor Type (Right Side) Blank: Straight Type	N: Without Sensor Rail Blank: With Sensor Rail	X: X-table Y: Y-table	D : 12 mm E : 6 mm	005: 50 mm 010: 100 mm 015: 150 mm ~ 085: 850 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: AC Input Specifications

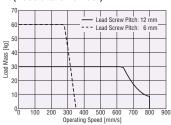
■ Electric Linear Slide Specifications

Lead Screw Pit	ch	mm	1	2	(3	
Electromagneti Type)	c Brake (Power Off Activated		Equipped	Not equipped	Equipped	Not equipped	
Drive Method				Ball S	Screw		
Repetitive Posit	tioning Accuracy	mm		±0	.02		
Minimum Trave	el Amount	mm		0.	01		
Traveling Parall	elism	mm	nm 0.03				
Permissible Dynamic Permissible Moment		- Nm	ı	Mp: 31.8 My:	10.3 Mr: 40.0	6	
Moment	Static Permissible Moment	- INIII	Mp: 86.0 My: 34.0 Mr: 110.0				
Transportable	Horizontal	lea.	30 max.		60 max.		
Mass	Vertical	- kg	15 max.	_	30 max.	_	
Thrust		N	200 max.		400 max.	[360 max.]	
Push Force		N	40	00	500		
Holding Force		N	20	00	400 [360]		
	50 to 550 mm		QI	00	40	00	
	600 mm		00	00	35	50	
Maximum	650 mm	_	64	40	30	00	
Speed	700 mm	mm/s	55	50	20	30	
by Stroke	750 mm		470		230		
-	800 mm		42	20	200		
	850 mm	_	36	60	18	180	

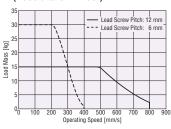
- The parentheses [] indicate the specifications for the reversed motor type.
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.

Operating Speed – Load Mass

 Horizontal Direction Installation (Acceleration 3 m/s²)



Vertical Direction Installation (Acceleration 2 m/s²)



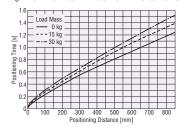
Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

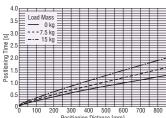
A reference value for the positioning time can be calculated by multiplying the positioning time calculated from the graph with the positioning time coefficient for the applicable stroke.

Lead Screw Pitch 12 mm

♦ Horizontal Direction Installation



Vertical Direction Installation

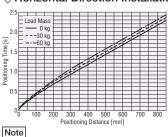


Positioning Time Coefficient

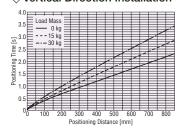
	Load Mass									
Stroke [mm]		ontal Dire nstallatio		Vertical Direction Installation						
	0 kg	15 kg	30 kg	0 kg	7.5 kg	15 kg				
50 to 600	1.0	1.0	1.0	1.0	1.0	1.0				
650	1.1	1.1 1.0		1.1	1.0	1.0				
700	1.3	1.1	1.0	1.2	1.1	1.0				
750	1.5	1.3	1.2	1.4	1.2	1.0				
800	1.6	1.5	1.4	1.6	1.3	1.1				
850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

Lead Screw Pitch 6 mm

♦ Horizontal Direction Installation



The starting speed should be 6 mm/s or less.



Positioning Time Coefficient

	Load Mass								
Stroke [mm]	Horizontal Direction Installation			Vertical Direction Installation					
	0 kg	0 kg 30 kg 60 kg			15 kg	30 kg			
50 to 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			

EASM6: Width 62 mm × Height 83 mm Revered Motor Type DC Input

Straight Type

Product Number

Model	Motor Orientation	Sensor Rail	Table Orientation	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EASM6	L	N	X	D	005	AZ	A	K
EASM6	L: Reversed Motor Type (Left Side) R: Reversed Motor Type (Right Side)	N: Without Sensor Rail Blank: With Sensor Rail	X: X-table Y: Y-table	D : 12 mm E : 6 mm	005: 50 mm 010: 100 mm 015: 150 mm ~ 085: 850 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: DC Input Specifications
	Blank: Straight Type							

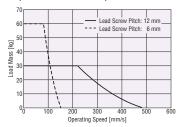
■ Electric Linear Slide Specifications

Lead Screw Pite	ch	mm	1	2	(3
Electromagnetic Type)	Brake (Power Off Activated		Equipped	Not equipped	Equipped	Not equipped
Drive Method				Ball S	Screw	
Repetitive Posit	mm		±0	.02		
Minimum Trave	l Amount	mm		0.	01	
Traveling Parall	elism	mm		0.	03	
Permissible	Dynamic Permissible Moment	- Nm	Mp: 31.8 My: 10.3 Mr: 40.6			
Moment	Static Permissible Moment	- INIII	Mp: 86.0 My: 34.0 Mr: 110.0			
Transportable	Horizontal	lea.	30 r	nax.	1 00	nax.
Mass	Vertical	- kg	15 max.	_	30 max.	_
Thrust		N	200	max.	400 max. [360 max.]	
Push Force		N	40	00	500	
Holding Force		N	20	00	400	[360]
	50 to 650 mm		60	00	30	00
Maximum	700 mm	_	55	50	260	
Speed	750 mm	mm/s	47	70	230	
by Stroke	800 mm	_	42	20	200	
	850 mm	_	36	60	18	30

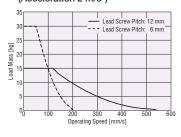
- The parentheses [] indicate the specifications for the reversed motor type.
- For specifications and characteristics of 48 VDC input products, contact your nearest sales office.
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.
- The maximum speed may decrease depending on the ambient temperature or the length of the motor cable.

Operating Speed – Load Mass

Horizontal Direction Installation (Acceleration 3 m/s²)



Vertical Direction Installation (Acceleration 2 m/s²)



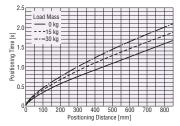
Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

A reference value for the positioning time can be calculated by multiplying the positioning time calculated from the graph with the positioning time coefficient for the applicable stroke.

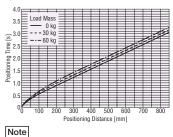
Lead Screw Pitch 12 mm

♦ Horizontal Direction Installation



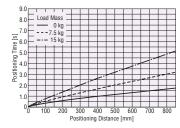
Lead Screw Pitch 6 mm

♦ Horizontal Direction Installation

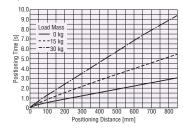


The starting speed should be 6 mm/s or less.

♦ Vertical Direction Installation



♦ Vertical Direction Installation



Positioning Time Coefficient

	Load Mass							
Stroke [mm]	Horizontal Direction Installation			Vertical Direction Installation				
	0 kg	15 kg	30 kg	0 kg	7.5 kg	15 kg		
50 to 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		

Positioning Time Coefficient

	Load Mass							
Stroke [mm]	Horizontal Direction Installation			Vertical Direction Installation				
	0 kg	30 kg	60 kg	0 kg	15 kg	30 kg		
50 to 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		

Dimensions Electric Linear Slides → Page 77-80

■Electromagnetic Brake Specification

Product Name		EASM4	EASM6		
Brake Type		Power Off Activated Type			
Power Supply Voltage		24 V DC±5%*			
Power Supply Current	Α	0.08 0.25			
Time Rating		Continuous			

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

■General Specifications

		AC Input DC Input				
Thermal Class		130 (B) [UL/0	CSA: 105 (A)]			
Insulation Resista	unce	100 M Ω or more when a 500 VDC megger is applied between the following places: · Case – Motor Windings · Case – Electromagnetic Brake Windings*1				
		Sufficient to withstand the following for 1 minute:	Sufficient to withstand the following for 1 minute:			
Dielectric Strength		• Case – Motor Windings 1.5 kVAC, 50 Hz or 60 Hz	· Case – Motor Windings 0.5 kVAC, 50 Hz or 60 Hz			
		· Case – Electromagnetic Brake Windings*1	EASM4, EASM6			
		1.5 kVAC, 50 Hz or 60 Hz	· 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	Ambient Temperature	0 to +40°C (N	on-freezing)*3			
Environment	Ambient Humidity	85% or less (N	on-condensing)			
(In operation)	Atmosphere	No corrosive gases or dust. The product should not be exposed to water, oil or other liquids.				
Degree of Protection* ² EASM2 : IP40 (excluding installation		EASM2: IP40 (excluding installation surface	on surfaces and connector locations)			
Degree of Protect	EASM4, EASM6: IP66 (excluding installation surfaces and connector locations)					
Multiple Rotation	Detection Range	e EASM2: ±450 Rotations (900 Rotations)				
in Power OFF Sta	te	EASM4, EASM6: ±900 Rotations (1800 Rotations)				

^{*1} Only for products with an electromagnetic brake.

Note

Electric Linear Slides

> AZ Series Equipped

CSTEP
AZ Series
Equipped
EAS

Electric Cylinders

CLSTEP
AZ Series
Equipped
EAC

Driver/ Connection cable

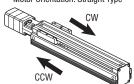
 $[\]ensuremath{ \star 3}$ It is based on Oriental Motor's measurement conditions.

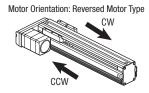
Disconnect the motor and driver when taking an insulation resistance measurement or performing a dielectric voltage withstand test. Also, do not perform these tests on the absolute sensor part of the motor.

■Travel Direction

At the time of shipment, the travel direction of the table is set as follows.

Motor Orientation: Straight Type



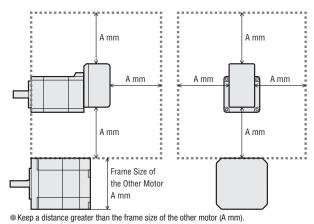


Installation of the Actuator

Note the installation location as the absolute sensor is easily affected by magnetism.

Installation of EASM2

When installing the motors side by side, separate them horizontally or vertically at a distance greater than the size (frame size) of the other motor.



Reference

The Other Motor	Α
Frame Size 20 mm	20
Frame Size 28 mm	28
Frame Size 42 mm	42
Frame Size 60 mm	60

• When installing the actuator in an environment where a magnetic field is generated

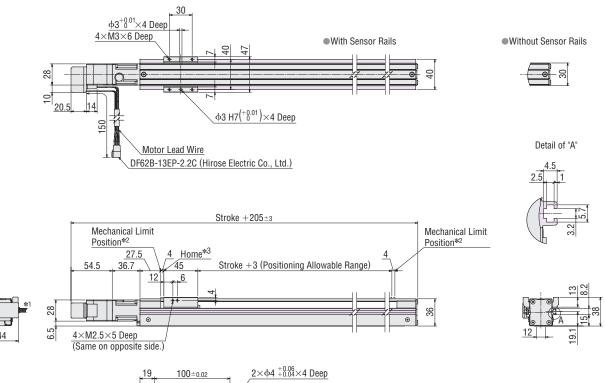
Make sure that the magnetic flux density on the surface of the absolute sensor does not exceed the values in the table.

Product Name	Magnetic Flux Density		
EASM2	2 mT*		
EASM4, EASM6	10 mT		

*When the magnetic flux density exceeding 1 mT and below 2 mT, please use the actuator at ambient temperature exceeding 20°C and below 40°C.

Dimensions (Unit: mm)

● EASM2 Straight Type X-Table With Sensor Rail / Without Sensor Rail



- \$1 The motor cable outlet direction can be changed in 90° intervals in four directions.
- *2 During the pushing return-to-home operation, the table moves to actuator end.
- $\slash\!$ 3 When using an accessory sensor, the home position differs.

 $(n+3)\times M4\times 4$ Deep

Stroke [mm]		50	100	150	200	250	300
Hole Coefficient	(n)	0	1	1	2	2	3
Mass [kg]	Single shaft	0.64	0.70	0.77	0.84	0.92	0.99

50

(100)

 $n \times 100$

Stroke +116.7

31.7

Electric

AZ Serie Equippe

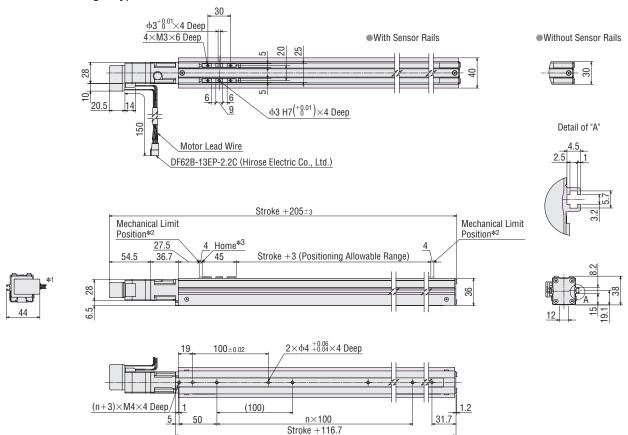
CLSTEP AZ Series Equipped

Electric Cylinders

> OXSTEP AZ Series Equipped EAC

Driver/ Connection cable

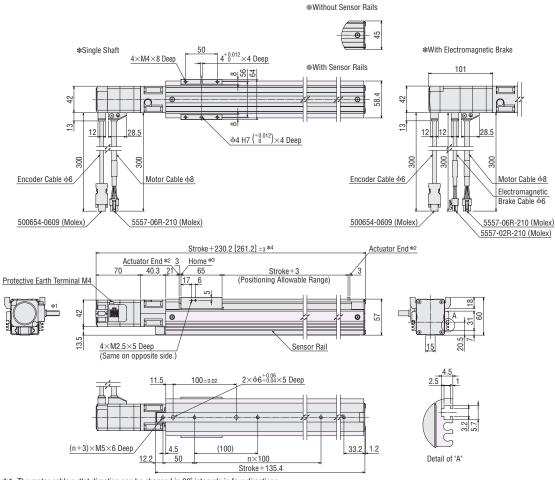
● EASM2 Straight Type Y-Table With Sensor Rail / Without Sensor Rail



- \$1 The motor cable outlet direction can be changed in 90° intervals in four directions.
- *2 During the pushing return-to-home operation, the table moves to actuator end.
- *3 When using an accessory sensor, the home position differs.

Stroke [mm]		50	100	150	200	250	300
Hole Coefficient (r	1)	0	1	1	2	2	3
Mass [kg]	Single shaft	0.64	0.70	0.77	0.84	0.92	0.99

● EASM4 Straight Type X-Table With Sensor Rail / Without Sensor Rail



- \$1 The motor cable outlet direction can be changed in 90° intervals in four directions.
- $\ensuremath{\$2}$ During the pushing return-to-home operation, the table moves to actuator end.
- *3 When using an accessory sensor, the home position differs
- \$4 The brackets [] indicate the values for the electromagnetic brake product.

Stroke [mm]			50	100	150	200	250	300	350	400	450	500	550	600	650	/00
Hole Coefficier	nt (n)		1	1	2	2	3	3	4	4	5	5	6	6	7	7
		Single shaft	1.8	1.9	2.1	2.2	2.4	2.5	2.7	2.9	3.0	3.2	3.4	3.5	3.7	3.8
Mass [kg]	With Sensor Rails	With electromagnetic brake	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.1	3.2	3.4	3.6	3.7	3.9	4.0
iviass [ky]		Single shaft	1.6	1.7	1.9	2.0	2.1	2.2	2.3	2.5	2.6	2.7	2.8	2.9	3.0	3.2
	Without Sensor Rails	With electromagnetic brake	1.8	1.9	2.1	2.2	2.3	2.4	2.5	2.7	2.8	2.9	3.0	3.1	3.2	3.4

F0 | 100 | 150 | 000 | 050 | 000 | 050 | 400 | 450 | 500 | 550 | 600 | 650 | 700

Electric Linear Slides

> AZ Serie Equippe EZS

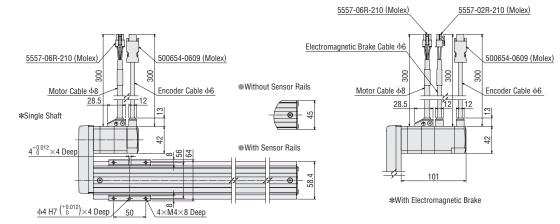
CL STEP AZ Series Equipped EAS

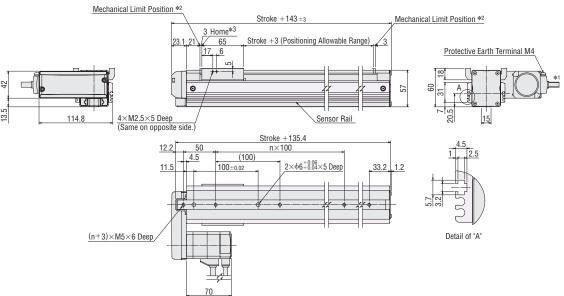
Electric Cylinders

OXSTEP AZ Series Equipped EAC

Driver/ Connection cable

● EASM4 Reversed Motor Type (Left Side) X-Table With Sensor Rail / Without Sensor Rail



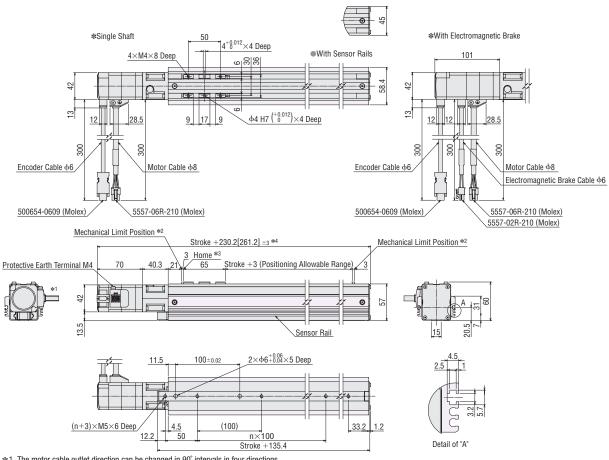


- *1 The motor cable outlet direction can be changed in 90° intervals in three directions.
- $\ensuremath{\bigstar2}$ During the pushing return-to-home operation, the table moves to actuator end.
- $\ensuremath{\bigstar} 3$ When using an accessory sensor, the home position differs.
- The figure above 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 Coefficier	nt (n)		1	1	2	2	3	3	4	4	5	5	6	6	7	7
		Single shaft	1.8	1.9	2.1	2.2	2.4	2.5	2.7	2.9	3.0	3.2	3.4	3.5	3.7	3.8
Maga [kg]	With Sensor Rails	With electromagnetic brake	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.1	3.2	3.4	3.6	3.7	3.9	4.0
Mass [kg]		Single shaft	1.6	1.7	1.9	2.0	2.1	2.2	2.3	2.5	2.6	2.7	2.8	2.9	3.0	3.2
	Without Sensor Rails	With electromagnetic brake	1.8	1.9	2.1	2.2	2.3	2.4	2.5	2.7	2.8	2.9	3.0	3.1	3.2	3.4

● EASM4 Straight Type Y-Table With Sensor Rail / Without Sensor Rail

Without Sensor Rails



- \$1 The motor cable outlet direction can be changed in 90° intervals in four directions.
- $\ensuremath{\$2}$ During the pushing return-to-home operation, the table moves to actuator end.
- *3 When using an accessory sensor, the home position differs.
- $\ensuremath{\, {\$4} \,}$ The brackets [] indicate the values for the electromagnetic brake product.

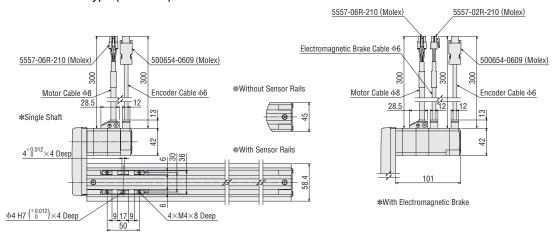
Stroke [mm]			50	100	150	200	250	300	350	400	450	500	550	600	650	700
Hole Coefficie	nt (n)		1	1	2	2	3	3	4	4	5	5	6	6	7	7
		Single shaft	1.8	1.9	2.1	2.2	2.4	2.5	2.7	2.9	3.0	3.2	3.4	3.5	3.7	3.8
Mass [kg]	With Sensor Rails	With electromagnetic brake	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.1	3.2	3.4	3.6	3.7	3.9	4.0
iviass [ky]		Single shaft	1.6	1.7	1.9	2.0	2.1	2.2	2.3	2.5	2.6	2.7	2.8	2.9	3.0	3.2
	Without Sensor Rails	With electromagnetic brake	1.8	1.9	2.1	2.2	2.3	2.4	2.5	2.7	2.8	2.9	3.0	3.1	3.2	3.4

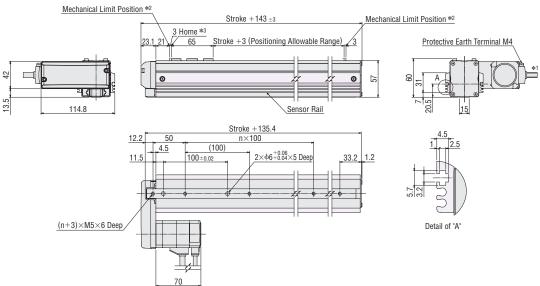
Electric Cylinders

CXSTEP AZ Series Equipped EAC

Connection cable

● EASM4 Reversed Motor Type (Left Side) Y-Table With Sensor Rail / Without Sensor Rail

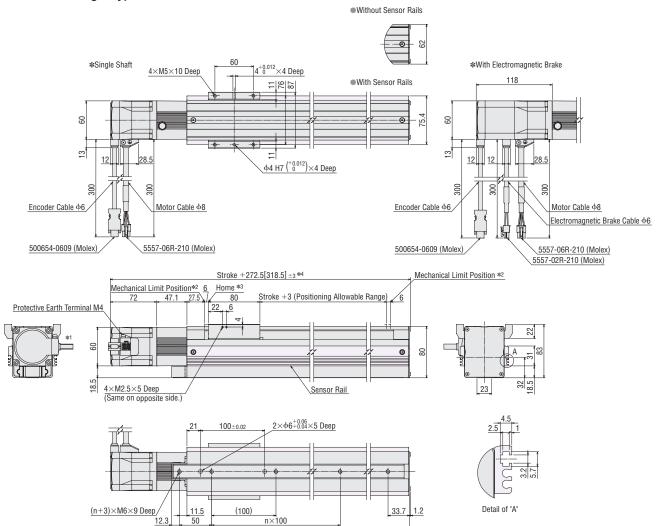




- *1 The motor cable outlet direction can be changed in 90° intervals in three directions.
- $\ensuremath{\$2}$ During the pushing return-to-home operation, the table moves to actuator end.
- *3 When using an accessory sensor, the home position differs.
- The figure above is for the left reversed motor 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 Coefficie	nt (n)		1	1	2	2	3	3	4	4	5	5	6	6	7	7
		Single shaft	1.8	1.9	2.1	2.2	2.4	2.5	2.7	2.9	3.0	3.2	3.4	3.5	3.7	3.8
Mass [kg]	With Sensor Rails	With electromagnetic brake	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.1	3.2	3.4	3.6	3.7	3.9	4.0
iviass [ky]		Single shaft	1.6	1.7	1.9	2.0	2.1	2.2	2.3	2.5	2.6	2.7	2.8	2.9	3.0	3.2
	Without Sensor Rails	With electromagnetic brake	1.8	1.9	2.1	2.2	2.3	2.4	2.5	2.7	2.8	2.9	3.0	3.1	3.2	3.4

● EASM6 Straight Type X-Table With Sensor Rail / Without Sensor Rail



- \$1 The motor cable outlet direction can be changed in 90° intervals in four directions.
- $\ensuremath{\$2}$ During the pushing return-to-home operation, the table moves to actuator end.
- *3 When using an accessory sensor, the home position differs.

Stroke [mm]			50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
Hole Coefficie	nt (n)		1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9
		Single shaft	3.9	4.2	4.5	4.8	5.1	5.3	5.6	5.9	6.2	6.5	6.7	7.0	7.3	7.6	7.9	8.1	8.4
Mass [kg]	With Sensor Rails	With electromagnetic brake	4.3	4.6	4.9	5.2	5.5	5.7	6.0	6.3	6.6	6.9	7.1	7.4	7.7	8.0	8.3	8.5	8.8
iviass [ky]		Single shaft	3.8	4.0	4.3	4.5	4.7	5.0	5.2	5.5	5.7	6.0	6.2	6.4	6.7	6.9	7.2	7.4	7.6
	Without Sensor Rails	With electromagnetic brake	4.2	4.3	4.7	4.9	5.1	5.4	5.6	5.9	6.1	6.4	6.6	6.8	7.1	7.3	7.6	7.8	8.0

Electric Linear Slides

> AZ Serie Equipped EZS

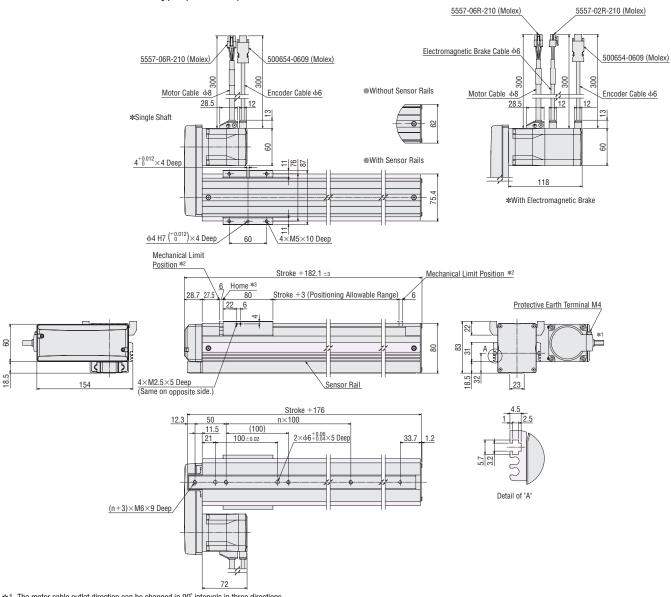
CASTEP
AZ Series
Equipped
EAS

Electric Cylinders

OXSTEP
AZ Series
Equipped
EAC

Driver/ Connection cable

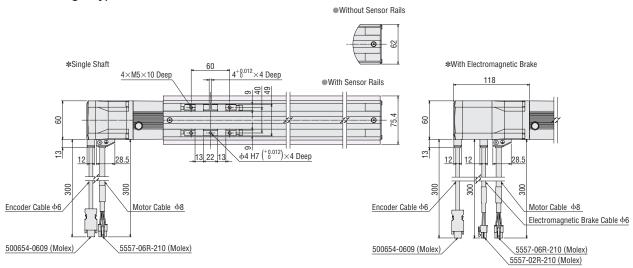
● EASM6 Reversed Motor Type (Left Side) X-Table With Sensor Rail / Without Sensor Rail

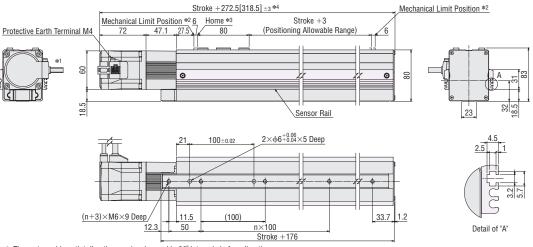


- *1 The motor cable outlet direction can be changed in 90° intervals in three directions.
- $\ensuremath{\$2}$ During the pushing return-to-home operation, the table moves to actuator end.
- *3 When using an accessory sensor, the home position differs.
- The figure above is for the left reversed motor 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 Coefficie	nt (n)		1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9
		Single shaft	3.9	4.2	4.5	4.8	5.1	5.3	5.6	5.9	6.2	6.5	6.7	7.0	7.3	7.6	7.9	8.1	8.4
Mass [kg]	With Sensor Rails	With electromagnetic brake	4.3	4.6	4.9	5.2	5.5	5.7	6.0	6.3	6.6	6.9	7.1	7.4	7.7	8.0	8.3	8.5	8.8
iviass [kg]		Single shaft	3.8	4.0	4.3	4.5	4.7	5.0	5.2	5.5	5.7	6.0	6.2	6.4	6.7	6.9	7.2	7.4	7.6
	Without Sensor Rails	With electromagnetic brake	4.2	4.3	4.7	4.9	5.1	5.4	5.6	5.9	6.1	6.4	6.6	6.8	7.1	7.3	7.6	7.8	8.0

● EASM6 Straight Type Y-Table With Sensor Rail / Without Sensor Rail





- \$1 The motor cable outlet direction can be changed in 90° intervals in four directions.
- $\ensuremath{\$2}$ During the pushing return-to-home operation, the table moves to actuator end.
- \$4 The brackets [] indicate the values for the electromagnetic brake product.

Stroke [mm]			50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
Hole Coefficier	nt (n)		1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9
		Single shaft	3.9	4.2	4.5	4.8	5.1	5.3	5.6	5.9	6.2	6.5	6.7	7.0	7.3	7.6	7.9	8.1	8.4
Mass [kg]	With Sensor Rails	With electromagnetic brake	4.3	4.6	4.9	5.2	5.5	5.7	6.0	6.3	6.6	6.9	7.1	7.4	7.7	8.0	8.3	8.5	8.8
iviass [ky]		Single shaft	3.8	4.0	4.3	4.5	4.7	5.0	5.2	5.5	5.7	6.0	6.2	6.4	6.7	6.9	7.2	7.4	7.6
	Without Sensor Rails	With electromagnetic brake	4.2	4.3	4.7	4.9	5.1	5.4	5.6	5.9	6.1	6.4	6.6	6.8	7.1	7.3	7.6	7.8	8.0

Electric Linear Slides

> AZ Serie Equipped EZS

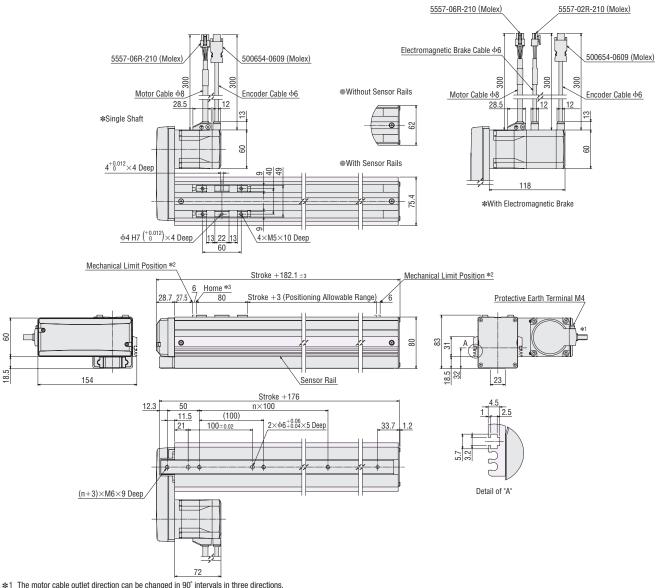
CASTEP
AZ Series
Equipped
EAS

Electric Cylinders

OXSTEP
AZ Series
Equipped
EAC

Driver/ Connection cable

● EASM6 Reversed Motor Type (Left Side) Y-Table With Sensor Rail / Without Sensor Rail



- *1 The motor cable outlet direction can be changed in 90° intervals in three directions.
- *2 During the pushing return-to-home operation, the table moves to actuator end.
- *3 When using an accessory sensor, the home position differs.
- 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 Coefficie	nt (n)		1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9
		Single shaft	3.9	4.2	4.5	4.8	5.1	5.3	5.6	5.9	6.2	6.5	6.7	7.0	7.3	7.6	7.9	8.1	8.4
Mass [kg]	With Sensor Rails	With electromagnetic brake	4.3	4.6	4.9	5.2	5.5	5.7	6.0	6.3	6.6	6.9	7.1	7.4	7.7	8.0	8.3	8.5	8.8
iviass [ky]		Single shaft	3.8	4.0	4.3	4.5	4.7	5.0	5.2	5.5	5.7	6.0	6.2	6.4	6.7	6.9	7.2	7.4	7.6
	Without Sensor Rails	With electromagnetic brake	4.2	4.3	4.7	4.9	5.1	5.4	5.6	5.9	6.1	6.4	6.6	6.8	7.1	7.3	7.6	7.8	8.0

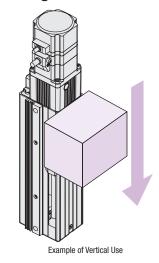
■ About Use of the **EASM6** (AC Input Type) for Vertical Driving

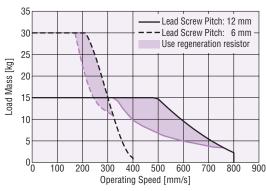
When operating **EASM6*** type electric linear slides in the vertical direction, depending on the driving conditions, an overvoltage protection alarm may be detected.

In such case, refer to the operating speed-load mass characteristics diagram, and connect the Oriental Motor's

RGB100 regeneration resistor to the driver.

*Common to all AC input specifications of **D** (lead screw pitch 12 mm) / **E** (lead screw pitch 6 mm), Straight / Reversed motor.





Region in which the regeneration resistor is required for **EASM6** (AC Input Type)

Regeneration Resistor

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



◇Product Line

Ī	Product Name	Applicable Product	List Price
	RGB100	AC Input Drivers	45.00 €

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

■ Install the regeneration resistor in the place which has the same heat radiation capability as heat radiation plate [Material: Aluminum 350 mm×350 mm, 3 mm thick].

Electric Linear Slides

> AZ Serie Equipped

CLSTEP
AZ Series
Equipped
EAS

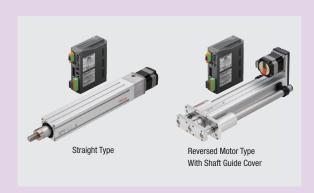
Electric Cylinders

CSTEP
AZ Series
Equipped
EAC

Driver/ Connection cable

Electric Cylinders

EAC Series α_{STEP} AZ Series Equipped



The motor component incorporates a high-efficiency, energy-saving *X* Series electric cylinder. In addition to straight-type actuators, reversed motor types with shorter overall length that can contribute to space saving are also available.

- Compactness and high thrust force for a wide variety of applications
- High performance regardless of operating conditions
- Easy belt replacement (reversed motor type)

Features

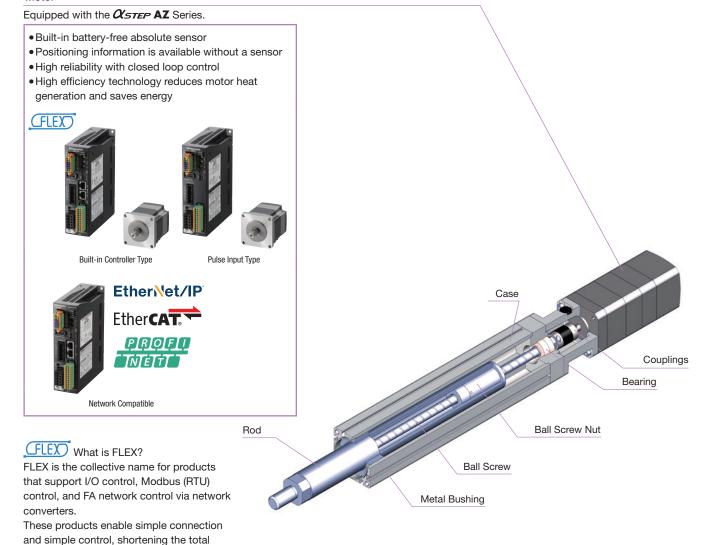
Compactness and High Thrust Force for a Wide Variety of Applications

Compact and High Thrust Force Cylinders

This series, which uses aluminum for the rod component, is a line of electric cylinders that produces high thrust force despite their compact and lightweight body. The unique structure suppresses vibration to achieve improved acceleration characteristics and high-speed positioning operation.

This illustration shows the straight type without a shaft guide.

Motor



lead time for system construction.

Cylinder Type and Configuration

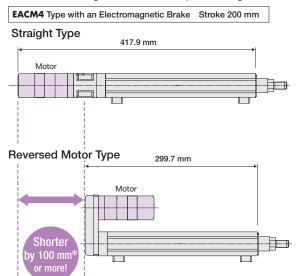
The **EAC** Series has reversed motor types and straight types. Three types of cylinders are also available: Not equipped with shaft guide, equipped with shaft guide cover.

♦ Reversed Motor Type

Thanks to the belt mechanism, this type features a reversed motor installation direction.

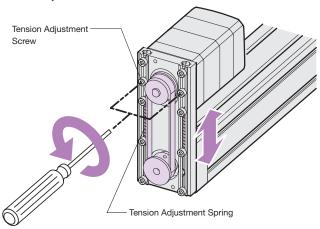


Every model in the product line has a reversed motor type. The shorter overall length contributes to space saving.



The belt can easily be replaced with Oriental Motor's unique belt tension adjustment mechanism.

*With Electromagnetic Brake

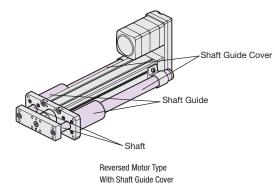


Loosen the screw to adjust the belt to the appropriate tension with spring force.

This type has a shaft guide and cover installed, which allows for the load to be transported while attached directly to the body of this product.

Straight types and reversed motor types are available.





Cable Outlet Direction

Can be rotated in 4 possible directions (3 for reversed motor type)

The motor cable outlet direction can be freely changed. Because the cable protrudes from the side of the motor, no space behind the motor is needed, further contributing to equipment space saving.



Electric Linear Slides

CLSTEP
AZ Series
Equipped
EZS

CLSTEP AZ Series Equipped EAS

Electric

CLSTEP
AZ Series
Equipped
FAC

Driver/ Connection cable

High Performance Regardless of Operating Conditions

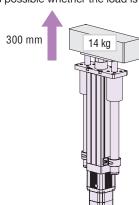
• A Wide Range of Applications, from Low Speed to High Speed and from Light Loads to Heavy Loads

High speed driving is possible whether the load is light or heavy.

<Product Used>
Product Name: **EACM6WE**

Lead: 6 mm Input Type: 200 VAC

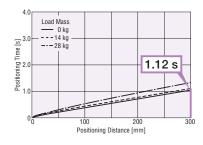
When moving a load mass of 14 kg over a distance of 300 mm, the positioning time is 1.12 seconds.



High Speed Driving Even with a Heavy Load

Load Mass: 14 kg

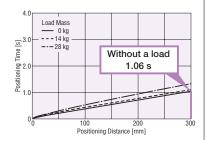
Positioning Distance: 300 mm Positioning Time: 1.12 s Operating Speed: 300 mm/s Acceleration: 2.48 m/s² (0.25 G)



High Speed Driving Even with a Light Load

Load Mass: 0 kg

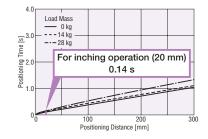
Positioning Distance: 300 mm Positioning Time: 1.06 s Operating Speed: 300 mm/s Acceleration: 5.25 m/s² (0.5 G)



High Speed Driving Even in Inching Operation

Load Mass: 14 kg

Positioning Distance: 20 mm Positioning Time: 0.14 s Operating Speed: 200 mm/s Acceleration: 5.3 m/s² (0.5 G)



Product Line

Shaft Guide Reversed Motor Type Straight Type Type without a Shaft Guide An external guide that fits the customer's equipment is required. Type with a Shaft Guide Designing an external guide and arranging the components is unnecessary, decreasing the startup time. With Shaft Guide Cover The moving part on the cylinder body side is protected, improving equipment safety. This also helps prevent grease from coming off the shaft guide and the intrusion of foreign particles in the linear bushing.

Electric Linear Slides

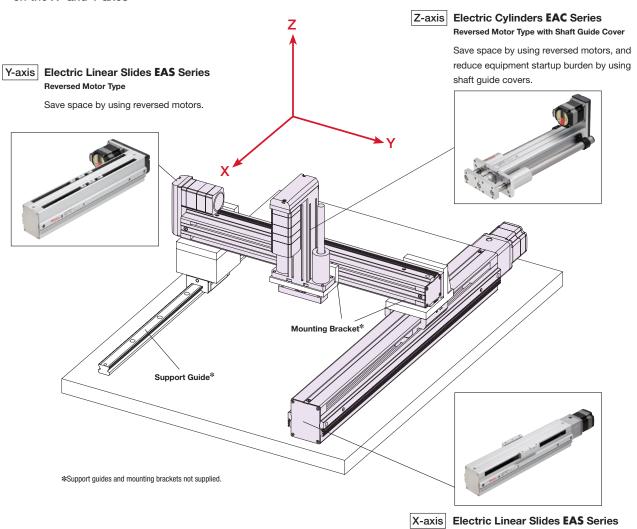
CLSTEP
AZ Series
Equipped
EZS

OCSTEP
AZ Series
Equipped
EAS

Connection cable

Peripheral Equipment

● Image of 3-axis Equipment Using an **EAC** Series Electric Cylinder on the Z-axis and **EAS** Series Electric Linear Slides on the X- and Y-axes



Straight Type

List of Combinations

AC Input

Product Line	Series	Product Name (On-board motor name)
Electric Cylinders	EAC Series	EACM4 AZAC- (AZM46AC) EACM4 AZMC- (AZM46MC) EACM6 AZAC- (AZM66AC) EACM6 AZMC- (AZM66AC)
	+	

Product Line	Туре	Product Name
	Built-in Controller Type	AZD-AD, AZD-CD
	Pulse Input Type with RS-485 Communication	AZD-AX, AZD-CX
Driver	Pulse Input Type	AZD-A, AZD-C
Dilvei	EtherNet/IP-compatible	AZD-AEP, AZD-CEP
	EtherCAT Drive Profile-compatible	AZD-AED, AZD-CED
	PROFINET-compatible	AZD-APN, AZD-CPN

Product Line	Туре	Product Name
Connection Cable Sets/	Connection Cable Set	For Motor/Encoder: CC VZF For Motor/Encoder/Electromagnetic Brake: CC VZFB
Flexible Connection Cable Sets	Flexible Connection Cable Sets	For Motor/Encoder: CC >> VZR For Motor/Encoder/Electromagnetic Brake: CC >> VZRB

<sup>A number or letter indicating the following is specified where the symbol is located in the product name.
: Motor installation direction
: Shaft guide</sup>

- ☐: Lead
- ☐: Stroke
- : Shaft guide cover

DC Input

Product Line Series		Product Name (On-board motor name)
Electric Cylinders	EAC Series	EACM2

+

Product Line	Туре	Product Name
	Built-in Controller Type	AZD-KD
	Pulse Input Type with RS-485 Communication	AZD-KX
Driver	Pulse Input Type	AZD-K
Driver	EtherNet/IP-compatible	AZD-KEP
	EtherCAT Drive Profile-compatible	AZD-KED
	PROFINET-compatible	AZD-KPN

Product Line		Туре	Product Name	
Connection Cable Sets/ Flexible Connection Cable Sets	For EACM2	Connection Cable Set	CC<>>VZ2F2	
		Flexible Connection Cable Sets	CC���VZ2R2	
	For EACM4 ,	Connection Cable Set	For Motor/Encoder: CC VZF2 For Motor/Encoder/Electromagnetic Brake: CC VZFB2	
	EACM6	Flexible Connection Cable Sets	For Motor/Encoder: CC VZR2 For Motor/Encoder/Electromagnetic Brake: CC VZRB2	

A number or letter indicating the following is specified where the symbol is located in the product name.

- : Motor installation direction
 : Shaft guide
- : Lead
- ☐: Stroke : Shaft guide cover

How to Read Specifications

This is how to read specifications, using electric cylinder specifications as an example.

■ Electric Cylinder Specifications

1)-	Lead Screw Pitch			12	6
2)-	Electromagnetic Brak	e (Power off activated type)		With	Blank
3	Drive Method			Ball S	Screw
4)-	Repetitive Positioning	Accuracy	mm	±0	.02
(5)—	Minimum Traveling Amount		mm	0.	01
	Permissible Dynamic Permissible Moment		Nm	Mp: 1.3 My	: 1.3 Mr: 0.6
6)-	Moment	Static Permissible Moment	INIII	Mp: 3.7 My	: 3.7 Mr: 3.0
(T)_	Horizontal Transportable Mana		kg	~15	~30
<i></i>	Transportable Mass	Vertical	ĸy	~6	~13
8	- Thrust		N	~70	~140
9-	Push Force		N	100	200
10-	Holding Force		N	70	140
11)—	Maximum Speed		mm/s	600	300

Depending on the product, there may be usage restrictions or precautions.
 Refer to the notes on each product's page for details.

①Lead

Distance the rod moves in the linear direction in one motor rotation.

2 Electromagnetic Brake (Power off activated type)

There are products with and without a power off activated type electromagnetic brake. Please select the type with an electromagnetic brake when driving in a vertical direction. (Except for **EACM2**)

③Drive Method

This refers to the mechanism that converts rotation into linear motion.

④Repetitive Positioning Accuracy

A value indicating the degree of error that generates when positioning is performed repeatedly to the same position in the same direction (measured at a constant temperature and under a constant load).

5 Minimum Traveling Amount

The minimum distant that the rod travels. (Factory setting)

6 Permissible Moment*

The load moment acts on the linear guide if the load's position is offset from the center of the rod.

The direction of action applies to 3 directions: pitching (MP), yawing (MY), and rolling (MR), depending on the position of the offset. The dynamic permissible moment is the moment during operation. The static permissible moment is the moment while the motor is not moving.

 \star Specifications for units equipped with shaft guide and shaft guide cover only.

Electric Linear Slides

> AZ Serie Equipped

CLSTEP AZ Series Equipped EAS

Electric

AZ Series
Equipped
EAC

Driver/ Connection

Peripheral Equipment

7Transportable Mass

Horizontal direction

The maximum mass that can be moved under rated operating performance when using the electric cylinder horizontally.

Vertical direction

The maximum mass that can be moved under rated operating performance when using the electric cylinder vertically.

Thrust

The thrusting force the rod exerts on the load during constant speed operation.

(9) Push Force

The pressure at push-motion operation.

®Holding Force

The holding force in power ON state when the motor is stopped and when the electromagnetic brake is activated.

①Maximum Speed

The maximum speed that the maximum transportable mass can be moved.

EAC Series $\alpha_{\it STEP}$ AZ Series Equipped

For technical references, regulations, and standards relate to these products, please see the Oriental Motor website

■Product Line of Electric Cylinders

AC Input

◇Product Number

① Model	② Motor Orientation	3 Shaft Guide	Lead Screw Pitch	⑤ Stroke	6 Equipped Motor	Motor Type	8 Motor Specifications	Shaft Guide Cover
EACM4	R	W	D	05	AZ	Α	С	-G
EACM4 EACM6	R: Reversed Motor Type Blank: Straight Type	W: With Shaft Guide Blank: No Shaft Guide	D : 12 mm E : 6 mm	05 : 50 mm 10 : 100 mm 15 : 150 mm ~ 30 : 300 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: AC Input Specifications	G: With Shaft Guide Cover Blank: No Shaft Guide Cover

◇EACM4 Straight Type/Reversed Motor Type

The prices are the same even if 2 motor orientation (\mathbf{R} , Blank), 4 lead screw pitch (\mathbf{D} , \mathbf{E}) are different.

7 Motor Type (A, N	1)	Single Shaft (A)	With Electromagnetic Brake (M)
- (5) Stroke -	50 mm (05)	560.00 €	749.00 €
	100 mm (10)	560.00 €	749.00 €
	150 mm (15)	573.00 €	762.00 €
3 SHOKE	200 mm (20)	573.00 €	762.00 €
-	250 mm (25)	586.00 €	777.00 €
	300 mm (30)	586.00 €	777.00 €

◇EACM4 Straight Type/Reversed Motor Type with Shaft Guide

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

7 Motor Type (A, N	I)	Single Shaft (A)	With Electromagnetic Brake (M)
5 Stroke -	50 mm (05)	790.00 €	980.00 €
	100 mm (10)	790.00 €	980.00 €
	150 mm (15)	803.00 €	993.00 €
	200 mm (20)	803.00 €	993.00 €
	250 mm (25)	818.00 €	1,007.00 €
	300 mm (30)	818.00 €	1,007.00 €

◇EACM4 Straight Type/Reversed Motor Type with Shaft Guide Cover

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

Motor Type (A, N	I)	Single Shaft (A)	With Electromagnetic Brake (M)
5 Stroke -	50 mm (05)	818.00 €	1,007.00 €
	100 mm (10)	818.00 €	1,007.00 €
	150 mm (1 5)	831.00 €	1,020.00 €
	200 mm (20)	831.00 €	1,020.00 €
	250 mm (25)	844.00 €	1,034.00 €
	300 mm (30)	844.00 €	1,034.00 €

♦ EACM6 Straight Type/Reversed Motor Type

The prices are the same even if ${@}$ motor orientation (**R**, Blank), ${@}$ lead screw pitch (**D**, **E**) are different.

7 Motor Type (A, M)		Single Shaft (A)	With Electromagnetic Brake (M)
5 Stroke 100 mm (1 150 mm (1 200 mm (2 200 mm	50 mm (05)	641.00 €	885.00 €
	100 mm (10)	641.00 €	885.00 €
	150 mm (15)	654.00 €	898.00 €
	200 mm (20)	654.00 €	898.00 €
	250 mm (25)	668.00 €	912.00 €
	300 mm (30)	668.00 €	912.00 €

◇EACM6 Straight Type/Reversed Motor Type with Shaft Guide

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

7 Motor Type (A, N	1)	Single Shaft (A)	With Electromagnetic Brake (M)
⑤ Stroke —	50 mm (05)	912.00 €	1,156.00 €
	100 mm (10)	912.00 €	1,156.00 €
	150 mm (15)	926.00 €	1,169.00 €
	200 mm (20)	926.00 €	1,169.00 €
	250 mm (25)	939.00 €	1,184.00 €
	300 mm (30)	939.00 €	1,184.00 €

◇EACM6 Straight Type/Reversed Motor Type with Shaft Guide Cover

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

7 Motor Type (A, M)		Single Shaft (A)	With Electromagnetic Brake (M)
- (5) Stroke -	50 mm (05)	939.00 €	1,184.00 €
	100 mm (10)	939.00 €	1,184.00 €
	150 mm (15)	953.00 €	1,197.00 €
3 SHOKE	200 mm (20)	953.00 €	1,197.00 €
-	250 mm (25)	966.00 €	1,210.00 €
	300 mm (30)	966.00 €	1,210.00 €

Electric Linear Slides

OXSTEP
AZ Series
Equipped
EZS

OXSTEP AZ Series Equipped EAS

Electric

CLSTEP AZ Series Equipped FAC

Driver/ Connection cable

DC Input

◇Product Number

① Model	② Motor Orientation	③ Shaft Guide	Lead Screw Pitch	⑤ Stroke	6 Equipped Motor	7 Motor Type	8 Motor Specifications	9 Shaft Guide Cover
EACM4	R	W	D	05	AZ	A	K	-G
EACM2 EACM4 EACM6	R: Reversed Motor Type Blank: Straight Type	W: With Shaft Guide Blank: No Shaft Guide	D: 12 mm E: 6 mm F: 3 mm	05 : 50 mm 10 : 100 mm 15 : 150 mm ~ 30 : 300 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: DC Input Specifications*	With Shaft Guide Cover Blank: No Shaft Guide Cover

*For **EACM2** only 24 VDC is applied.

♦ EACM2 Straight Type

The prices are the same even if 4 Lead Screw Pitch ($\textbf{E},\,\textbf{F})$ are different.

	50 mm(05)	539.00 €
Stroke	100 mm(10)	539.00 €
	150 mm(15)	552.00 €

◇EACM2 Straight Type with Shaft Guide Cover

The prices are the same even if 4 Lead Screw Pitch (E,F) are different.

	50 mm(05)	770.00 €
⑤ Stroke	100 mm(10)	770.00 €
	150 mm(1 5)	783.00 €

◇EACM4 Straight Type/Reversed Motor Type

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

Motor Type (A, M)		Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (05)	560.00 €	749.00 €
	100 mm (10)	560.00 €	749.00 €
⑤ Stroke	150 mm (15)	573.00 €	762.00 €
3 SHOKE	200 mm (20)	573.00 €	762.00 €
	250 mm (25)	586.00 €	777.00 €
	300 mm (30)	586.00 €	777.00 €

♦ EACM4 Straight Type/Reversed Motor Type with Shaft Guide

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

Motor Type (A, M)		Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (05)	790.00 €	980.00 €
	100 mm (10)	790.00 €	980.00 €
⑤ Stroke	150 mm (15)	803.00 €	993.00 €
3 SHUKE	200 mm (20)	803.00 €	993.00 €
	250 mm (25)	818.00 €	1,007.00 €
	300 mm (30)	818.00 €	1,007.00 €

◇EACM4 Straight Type/Reversed Motor Type with Shaft Guide Cover

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

7 Motor Type (A, N	1)	Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (05)	818.00 €	1,007.00 €
	100 mm (10)	818.00 €	1,007.00 €
(5) Stroke	150 mm (15)	831.00 €	1,020.00 €
Slicke	200 mm (20)	831.00 €	1,020.00 €
	250 mm (25)	844.00 €	1,034.00 €
	300 mm (30)	844.00 €	1,034.00 €

♦ EACM6 Straight Type/Reversed Motor Type

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

7 Motor Type (A, N	1)	Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (05)	641.00 €	885.00 €
	100 mm (10)	641.00 €	885.00 €
⑤ Stroke	150 mm (15)	654.00 €	898.00 €
3 Stroke	200 mm (20)	654.00 €	898.00 €
	250 mm (25)	668.00 €	912.00 €
	300 mm (30)	668.00 €	912.00 €

◇EACM6 Straight Type/Reversed Motor Type with Shaft Guide

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

Motor Type (A, M)		Single Shaft (A)	With Electromagnetic Brake (M)	
	50 mm (05)	912.00 €	1,156.00 €	
	100 mm (10)	912.00 €	1,156.00 €	
⑤ Stroke	150 mm (15)	926.00 €	1,169.00 €	
3 Stroke	200 mm (20)	926.00 €	1,169.00 €	
	250 mm (25)	939.00 €	1,184.00 €	
	300 mm (30)	939.00 €	1,184.00 €	

◇EACM6 Straight Type/Reversed Motor Type with Shaft Guide Cover

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

7 Motor Type (A, N	1)	Single Shaft (A)	With Electromagnetic Brake (M)
	50 mm (05)	939.00 €	1,184.00 €
	100 mm (10)	939.00 €	1,184.00 €
(5) Stroke	150 mm (15)	953.00 €	1,197.00 €
3 Stroke	200 mm (20)	953.00 €	1,197.00 €
	250 mm (25)	966.00 €	1,210.00 €
	300 mm (30)	966.00 €	1,210.00 €

Included

Type	Operating Manual
Common to All Types	1 Copy

The drivers and cables to be combined with the actuators are the same as the α -step AZ Series.

QSTEP **AZ** Series brochure is available. For selecting the products, refer to the brochure as well.



Electric Linear Slides

CLSTEP
AZ Series
Equipped
EZS

OXSTEP AZ Series Equipped EAS

Electric

CLSTEP
AZ Series
Equipped
EAC

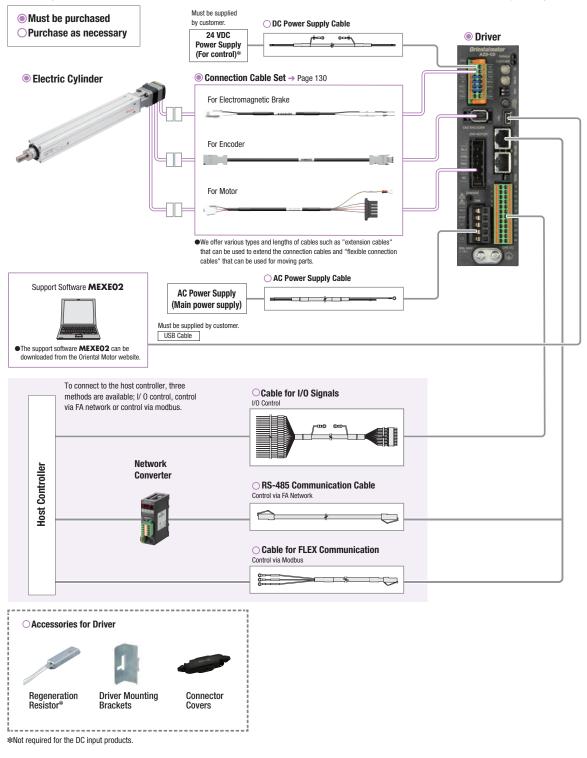
Driver/ Connection cable

■System Configuration

• Combination of Electric Cylinder with Electromagnetic Brake and either Built-in Controller Type Driver or Pulse Input Type Driver with RS-485 Communication (Information for AC input type and DC input type are both provided. The photos show the product of AC input type.)

This is an example of a configuration when I/O controlled using a built-in controller type driver or when controlled with RS-485 communication is shown below.

Electric cylinders, drivers, and connection cable sets/flexible connection cable sets need to be ordered separately.



Example of System Configuration Pricing



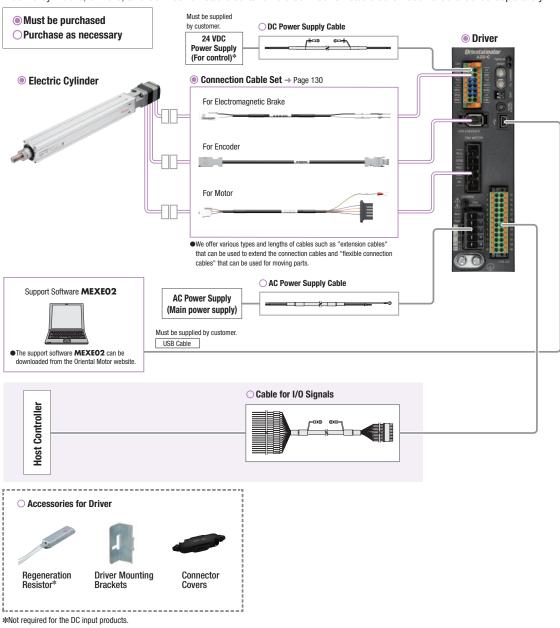
[•] The system configuration shown above is an example. Other combinations are also available.
Note

The motor cable and electromagnetic brake cable from the motor cannot be connected directly to the driver. When connecting to a driver, use a connection cable.

Combination of Electric Cylinder with Electromagnetic Brake and Network-Compatible Driver (Information for AC input type and DC input type are both provided. The photos show the product of AC input type.)

An example of a configuration when I/O controlled using an EtherNet/IP Compatible driver or when controlled with EtherNet/IP is shown below.

Electric cylinders, drivers, and connection cable sets/flexible connection cable sets need to be ordered separately.



●Example of System Configuration Pricing



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

The motor cable and electromagnetic brake cable from the motor cannot be connected directly to the driver. When connecting to a driver, use a connection cable.

Electric Linear Slides

CLSTEP
AZ Series
Equipped
EZS

CXSTEP
AZ Series
Equipped
EAS

Electric

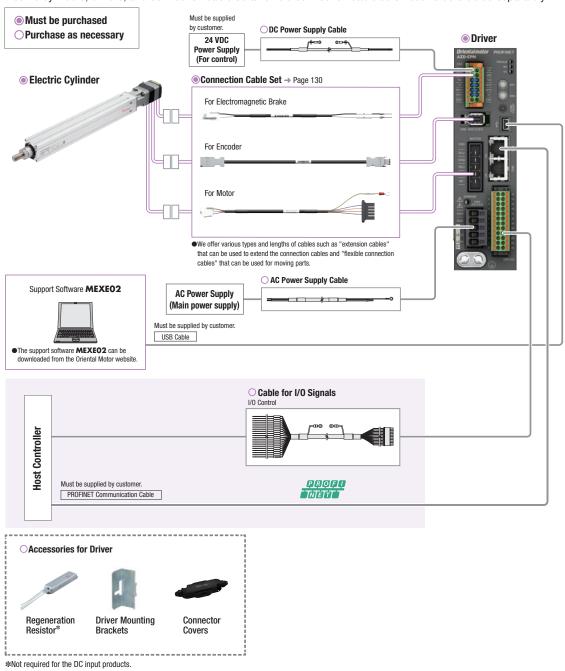
CASTEP AZ Series Equipped

Driver/ Connection cable

 Combination of Electric Cylinder with Electromagnetic Brake and Network-Compatible Driver (Information for AC input type and DC input type are both provided. The photos show the product of AC input type.)

An example of a configuration when I/O controlled using an PROFINET Compatible driver or when controlled with PROFINET is shown below.

Electric cylinders, drivers, and connection cable sets/flexible connection cable sets need to be ordered separately.



●Example of System Configuration Pricing



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

The motor cable and electromagnetic brake cable from the motor cannot be connected directly to the driver. When connecting to a driver, use a connection cable.

EACM2: Frame Size 28 mm × 28 mm DC Input

Straight Type

Product Number

Model	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EACM2	E	05	AZ	Α	K
EACM2	E :6 mm F :3 mm	05 : 50 mm 10 : 100 mm 15 : 150 mm	AZ Series	A: Single Shaft	K: DC Input Specifications

■Electric Cylinder Specifications

Lead Screw Pitch		mm	n 6 3		
Electromagnetic Brake Type)	e (Power Off Activated		Not equipped		
Drive Method			Ball S	Screw	
Repetitive Positioning	Accuracy	mm	±0	0.02	
Minimum Travel Amount	mm	0.01			
Permissible Moment	Dynamic Permissible Moment	— Nm		ectric linear cylinder	
r emissible Moment	Static Permissible Moment	- MIII	rod. A simple anti-spin mechanism i already provided, but always be sure to provide an external guide.		
Transportable Mass	Horizontal Direction	l.a	7.5 Max.	15 Max.	
Transportable Mass	Vertical Direction	– kg	2.5 Max.	5 Max.	
Thrust		N	25 Max.	50 Max.	
Push Force		N	40	80	
Holding Force		N	25	50	
Maximum Speed		mm/s	300	150	

• Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical

When the product is used for operation in the vertical direction, provide protection external to the equipment.

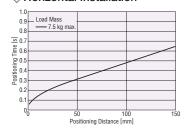
• The maximum speed may decrease depending on the ambient temperature or the length of the motor cable.

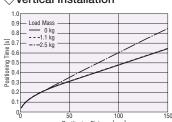
Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

Lead Screw Pitch: 6 mm

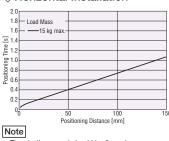
♦ Horizontal Installation



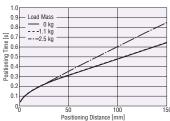


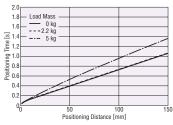
Lead Screw Pitch: 3 mm

♦ Horizontal Installation



The starting speed should be 6 mm/s max..





Electric Linear Slides

CLSTEP
AZ Series
Equipped
EZS

OCSTEP
AZ Series
Equipped
EAS

Connection cable

Peripheral Equipment

Dimensions

■Electric Cylinders → Page 115

■Operating Speed - Thrust

Operating Speed [mm/s]

Lead Screw Pitch: 6 mm
--- Lead Screw Pitch: 3 mm

EACM2W: Frame Size 28 mm × 86 mm DC Input Straight Type with Shaft Guide Cover

Product Number

Model	Shaft Guide	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications	Shaft Guide Cover
EACM2	W	E	05	AZ	A	K	-G
EACM2	W: With Shaft Guide	E : 6 mm F : 3 mm	05 : 50 mm 10 : 100 mm 15 : 150 mm	AZ Series	A: Single Shaft	K: DC Input Specifications	-G: With Shaft Guide Cover

Electric Cylinder Specifications

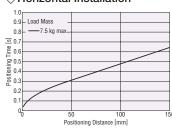
Lead Screw Pitch		mm	6 3		
Electromagnetic Brake Type)	e (Power Off Activated		Not equipped		
Drive Method			Ball S	Screw	
Repetitive Positioning	Accuracy	mm	±0	0.02	
Minimum Travel Amount		mm	0.01		
Permissible Moment	Dynamic Permissible Moment	Nee	Mp:0.7 My	:0.7 Mr:0.3	
Permissible Moment	Static Permissible Moment	— Nm	Mp:1.4 My	:1.4 Mr:0.6	
Transportable Mass	Horizontal Direction	l.a	7.5 Max.	15 Max.	
Transportable Mass	Vertical Direction	– kg	2.0 Max.	4.5 Max.	
Thrust		N	25 Max.	50 Max.	
Push Force		N	40 80		
Holding Force		N	25 50		
Maximum Speed		mm/s	300	150	

- The transportable mass specifications apply when using external linear guide When the linear guide is not used, refer to "Horizontal Transportable Mass"
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical
- When the product is used for operation in the vertical direction, provide protection external to the equipment.
- The maximum speed may decrease depending on the ambient temperature or the length of the motor cable.

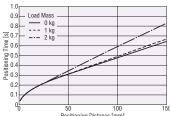
Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

Lead Screw Pitch: 6 mm

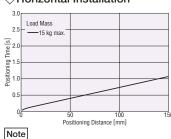


Vertical Installation

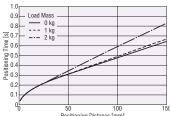


Lead Screw Pitch: 3 mm

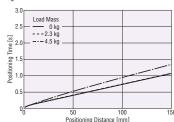
♦ Horizontal Installation



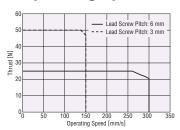
The starting speed should be 6 mm/s max..



♦ Vertical Installation

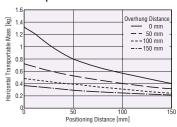


■Operating Speed – Thrust



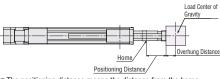
Horizontal Transportable Mass

Transportable Mass



Products equipped with a shaft guide cover can transport loads that are attached directly to the body of the product.

Check the horizontal transportable mass in the graph above



- The positioning distance means the distance from the home position.
- The overhung distance means the distance that the load extends beyond the installation surface.

Dimensions

■Electric Cylinders → Page 120

EACM4: Frame Size 42 mm × 42 mm AC Input

Straight Type

Product Number

Model	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EACM4	D	05	AZ	A	С
EACM4	D : 12 mm E : 6 mm	05 : 50 mm 10 : 100 mm 15 : 150 mm ~ 30 : 300 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: AC Input Specifications

■ Electric Cylinder Specifications

Lead Screw Pitch		mm	1	2	(3
Electromagnetic Brake	(Power Off Activated		Equipped	Not	Equipped	Not
Type)			Lquippeu	equipped	Lquippeu	equipped
Drive Method			Ball Screw			
Repetitive Positioning	Accuracy	mm		±0).02	
Minimum Travel Amou	nt	mm		0.	01	
Permissible Moment	Dynamic Permissible Moment	— Nm	Do not apply a radial load or load moment t electric linear cylinder rod. A simple anti-sp			
reithissible Motheric	Static Permissible Moment	— IVIII		near cylinder rod. A simple anti-sp m is already provided, but always ovide an external guide.		ways be
Transportable Mass	Horizontal Direction	l.a	15 l	И ах.	30 I	Max.
Transportable Mass	Vertical Direction	— kg	7 Max.	_	14 Max.	_
Thrust		N	70 Max. 140 Max.		Max.	
Push Force		N	N 100 200		00	
Holding Force		N	70 140			40
Maximum Speed		mm/s	60	00	3	00

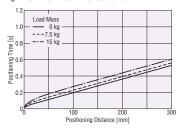
- $\ \ \, \ \ \,$ The transportable mass specifications apply when using external linear guide.
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction.

Select a product with an electromagnetic brake for operation in the vertical direction.

■Positioning Distance – Positioning Time

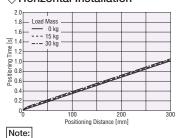
The positioning time (reference) can be checked from the positioning distance.

Lead Screw Pitch: 12 mm

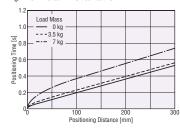


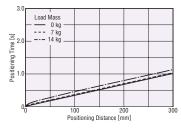
Lead Screw Pitch: 6 mm

⇔ Horizontal Installation



The starting speed should be 6 mm/s max...





Electric Linear Slides

CLSTEP
AZ Series
Equipped
EZS

CASTEP AZ Series Equipped EAS

Electric

CLSTEP AZ Series Equipped FAC

Driver/ Connection cable

Peripheral Equipment

Dimensions

80

■ Electric Cylinders → Page 116

■Operating Speed - Thrust

Operating Speed [mm/s]

EACM4R: Frame Size 42 mm × 42 mm AC Input

Reversed Motor Type

Product Number

Model	Motor Orientation	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EACM4	R	D	05	AZ	A	С
EACM4	R: Reversed Motor Type	D : 12 mm E : 6 mm	05 : 50 mm 10 : 100 mm 15 : 150 mm ~ 30 : 300 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: AC Input Specifications

■Electric Cylinder Specifications

Lead Screw Pitch		mm	1	2	6	
Electromagnetic Brake Type)	e (Power Off Activated	Fallibad Fallibad				Not equipped
Drive Method			Ball Screw			
Repetitive Positioning	Accuracy	mm		±0	.02	
Minimum Travel Amou	nt	mm		0.	01	
Permissible Moment	Dynamic Permissible Moment	– Nm	Do not apply a radial load or load moment to an electric linear cylinder rod. A simple anti-spin mechanism is already provided, but always be sure to provide an external guide.			
Termissible Women	Static Permissible Moment	NIII				
Transportable Mass	Horizontal Direction	ka	15 I	Max.	30 1	Max.
iransportable iviass	Vertical Direction	– kg	7 Max.	_	12.5 Max.	_
Thrust		N	70 I	Max.	125	Max.
Push Force		N	100		200	
Holding Force N		N	70		125	
Maximum Speed		mm/s	60	00	30	00

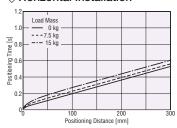
- The transportable mass specifications apply when using external linear guide.
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.

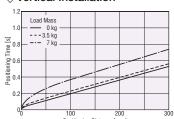
■Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

Lead Screw Pitch: 12 mm

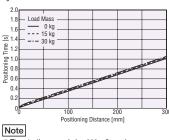
♦ Horizontal Installation



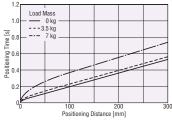


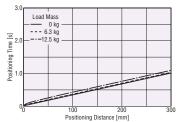
Lead Screw Pitch: 6 mm

♦ Horizontal Installation

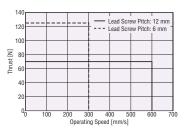


The starting speed should be 6 mm/s max..





■Operating Speed – Thrust



Dimensions

■Electric Cylinders → Page 117

EACM4: Frame Size 42 mm × 42 mm DC Input

Straight Type

Product Number

Model	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EACM4	D	05	AZ	A	K
EACM4	D : 12 mm E : 6 mm	05 : 50 mm 10 : 100 mm 15 : 150 mm ~ 30 : 300 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: DC Input Specifications

■Electric Cylinder Specifications

Lead Screw Pitch		mm	1	2	(6	
Electromagnetic Brake Type)	e (Power Off Activated		Equipped Not equipped Equipped equipped				
Drive Method			Ball Screw				
Repetitive Positioning	Accuracy	mm		±0	.02		
Minimum Travel Amou	nt	mm		0.	01		
Permissible Moment	Dynamic Permissible Moment	— Nm	Do not apply a radial load or load moment to electric linear cylinder rod. A simple anti-spir				
remissible Moment	Static Permissible Moment	— IVIII	electric linear cylinder rod. A simple anti		ways be		
Transportable Mass	Horizontal Direction	l.a	15 N	Лах.	1 08	Max.	
Transportable Mass	Vertical Direction	— kg	7 Max.	_	14 Max.	_	
Thrust		N	70 Max. 140 Max.			Max.	
Push Force		N	1 100 200		00		
Holding Force		N	70 140			40	
Maximum Speed		mm/s	1.7			າດ	

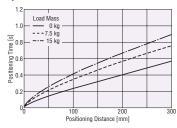
- For specifications and characteristics of 48 VDC input products, contact your nearest sales office.
- The transportable mass specifications apply when using external linear guide.
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.
- The maximum speed may decrease depending on the ambient temperature or the length of the motor cable.

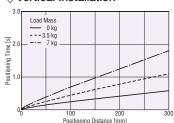
Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

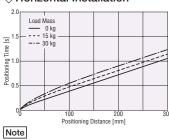
Lead Screw Pitch: 12 mm

♦ Horizontal Installation

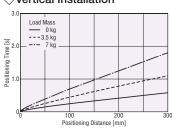


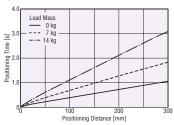


Lead Screw Pitch: 6 mm



The starting speed should be 6 mm/s max...





Electric Linear Slides

OCSTEP
AZ Series
Equipped
EZS

CASTEP
AZ Series
Equipped
EAS

Connection

Peripheral Equipment

Dimensions

80

■Electric Cylinders → Page 116

■Operating Speed – Thrust

Operating Speed [mm/s]

Lead Screw Pitch: 12 mm Lead Screw Pitch: 6 mm

EACM4R: Frame Size 42 mm × 42 mm DC Input

Reversed Motor Type

Model	Motor Orientation	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EACM4	R	D	05	AZ	A	K
EACM4	R: Reversed Motor	D : 12 mm E : 6 mm	05 : 50 mm 10 : 100 mm 15 : 150 mm ~ 30 : 300 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: DC Input Specifications

■Electric Cylinder Specifications

Lead Screw Pitch		mm	1	2	6		
Electromagnetic Brake Type)	(Power Off Activated		Equipped	Not equipped	Equipped	Not equipped	
Drive Method			Ball Screw				
Repetitive Positioning	Accuracy	mm		±0	.02		
Minimum Travel Amou	nt	mm		0.	01		
Permissible Moment	Dynamic Permissible Moment	— Nm	Do not apply a radial load or load moment to an electric linear cylinder rod. A simple anti-spin				
Termissible Women	Static Permissible Moment	IVIII		is already pro ide an extern	rovided, but always be nal guide.		
Transportable Mass	Horizontal Direction	lea.	15 l	И ах.	1 08	Мах .	
Transportable Mass	Vertical Direction	– kg	7 Max.	-	12.5 Max.	_	
Thrust		N	70 ا	Л ах.	125	Max.	
Push Force		N	10	00	20	00	
Holding Force	rce N 70		12	25			
Maximum Speed		mm/s	60	00	30	00	

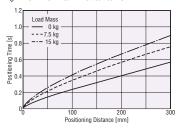
- For specifications and characteristics of 48 VDC input products, contact your nearest sales office.
- The transportable mass specifications apply when using external linear guide.
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.
- $\blacksquare \ \, \text{The maximum speed may decrease depending on the ambient temperature or the length of the motor cable}.$

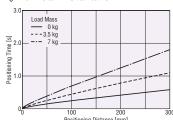
Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

Lead Screw Pitch: 12 mm

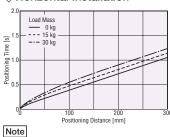
♦ Horizontal Installation



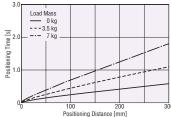


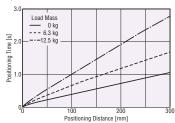
Lead Screw Pitch: 6 mm

♦ Horizontal Installation

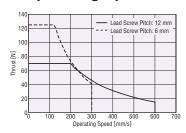


The starting speed should be 6 mm/s max..





■Operating Speed – Thrust



Dimensions

■Electric Cylinders → Page 117

EACM6: Frame Size 60 mm × 60 mm AC Input

Straight Type

Model	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EACM6	D	05	AZ	A	С
EACM6	D : 12 mm E : 6 mm	05 : 50 mm 10 : 100 mm 15 : 150 mm ~ 30 : 300 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: AC Input Specifications

■Electric Cylinder Specifications

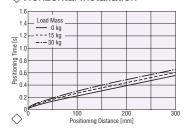
Lead Screw Pitch		mm	1	2		6
Electromagnetic Brake Type)	e (Power Off Activated		Equipped Not equipped Equipped equippe			
Drive Method			Ball Screw			
Repetitive Positioning	Accuracy	mm		±0	0.02	
Minimum Travel Amou	nt	mm		0.	01	
Permissible Moment	Dynamic Permissible Moment	– Nm	Do not apply a radial load or load moment to an electric linear cylinder rod. A simple anti-spin mechanism is already provided, but always be sure to provide an external guide.			
1 officials wellen	Static Permissible Moment					
Transportable Mass	Horizontal Direction	ka	~	30	~	60
iransportable iviass	Vertical Direction	– kg	~15	_	~30	_
Thrust		N	N ~200 ~400		400	
Push Force N		N	400		500	
Holding Force		N	200 400			00
Maximum Speed		mm/s	60	00	3	00

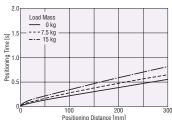
- The transportable mass specifications apply when using external linear guide.
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.

Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

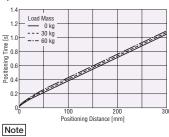
Lead Screw Pitch: 12 mm



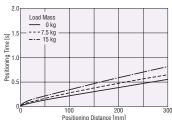


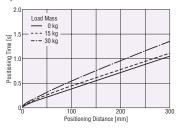
Lead Screw Pitch: 6 mm

♦ Horizontal Installation



The starting speed should be 6 mm/s max..





Electric Linear Slides

OXSTEP
AZ Series
Equipped
EAS

Connection cable

Peripheral Equipment

Dimensions

■Electric Cylinders → Page 118

■Operating Speed – Thrust

EACM6R: Frame Size 60 mm × 60 mm AC Input

Reversed Motor Type

Product Number

Model	Motor Orientation	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EACM6	R	D	05	AZ	Α	С
EACM6	R: Reversed Motor Type	D : 12 mm E : 6 mm	05 : 50 mm 10 : 100 mm 15 : 150 mm ~ 30 : 300 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	AC Input Specifications

■Electric Cylinder Specifications

Lead Screw Pitch		mm	1	2		6
Electromagnetic Brake	e (Power Off Activated		Equipped	Not	Equipped	Not
Type)			Lquippeu	equipped	Lquippeu	equipped
Drive Method			Ball Screw			
Repetitive Positioning	Accuracy	mm		±0	.02	
Minimum Travel Amou	nt	mm	m 0.01			
Permissible Moment	Dynamic Permissible Moment	— Nm	Do not apply a radial load or load moment to an electric linear cylinder rod. A simple anti-spin mechanism is already provided, but always be sure to provide an external guide.			
Termissible Women	Static Permissible Moment	IVIII				
Transportable Mass	Horizontal Direction	ka	30 Max.		60 Max.	
iransportable iviass	Vertical Direction	– kg	15 Max.	_	30 Max.	_
Thrust		N	200	Max.	360	Max.
Push Force		N	N 400 500		00	
Holding Force		N	N 200 360			60
Maximum Speed		mm/s	600		300	

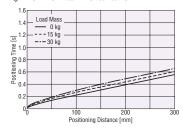
[•] The transportable mass specifications apply when using external linear guide.

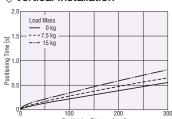
■Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

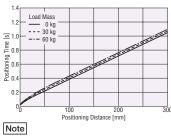
Lead Screw Pitch: 12 mm

♦ Horizontal Installation

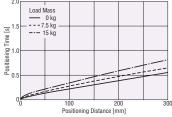


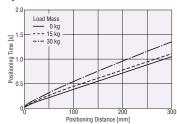


Lead Screw Pitch: 6 mm

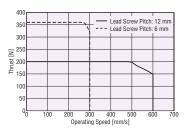


The starting speed should be 6 mm/s max..





■Operating Speed – Thrust



Dimensions

■ Electric Cylinders → Page 119

[•] Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.

EACM6: Frame Size 60 mm × 60 mm DC Input

Straight Type

Model	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EACM6	D	05	AZ	A	K
EACM6	D : 12 mm E : 6 mm	05 : 50 mm 10 : 100 mm 15 : 150 mm ~ 30 : 300 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: DC Input Specifications

■Electric Cylinder Specifications

Lead Screw Pitch		mm	1	2		6	
Electromagnetic Brake Type)	e (Power Off Activated		Equipped	Not equipped	Equipped	Not equipped	
Drive Method			Ball Screw				
Repetitive Positioning	Accuracy	mm		±C	0.02		
Minimum Travel Amou	nt	mm		0.	01		
Permissible Moment	Dynamic Permissible Moment	— Nm	Do not apply a radial load or load moment to an electric linear cylinder rod. A simple anti-spin mechanism is already provided, but always be sure to provide an external guide.				
	Static Permissible Moment						
Transportable Mass	Horizontal Direction	ka	~	30	~60		
Transportable Mass	Vertical Direction	– kg	~15	_	~30	_	
Thrust		N	~2	200	~	400	
Push Force		N	N 400 500		00		
Holding Force		N	N 200 400			00	
Maximum Speed		mm/s	60	00	3	300	

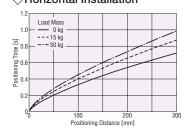
- For specifications and characteristics of 48 VDC input products, contact your nearest sales office.
- The transportable mass specifications apply when using external linear guide.
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical $\ direction. \ Select\ a\ product\ with\ an\ electromagnetic\ brake\ for\ operation\ in\ the\ vertical\ direction.$
- The maximum speed may decrease depending on the ambient temperature or the length of the motor cable.

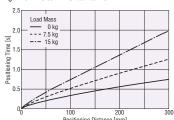
Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

Lead Screw Pitch: 12 mm

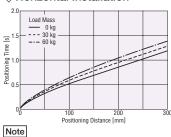
♦ Horizontal Installation



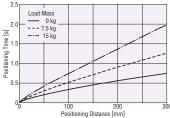


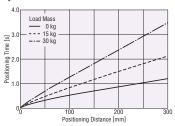
Lead Screw Pitch: 6 mm

♦ Horizontal Installation



The starting speed should be 6 mm/s max..





Electric Linear Slides

OXSTEP
AZ Series
Equipped
EAS

Connection cable

Peripheral Equipment

Dimensions

150 100 50

■Electric Cylinders → Page 118

■Operating Speed – Thrust

Operating Speed [mm/s]

EACM6R: Frame Size 60 mm × 60 mm DC Input

Reversed Motor Type

Product Number

Model	Motor Orientation	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications
EACM6	R	D	05	AZ	Α	K
EACM6	R: Reversed Motor Type	D : 12 mm E : 6 mm	05 : 50 mm 10 : 100 mm 15 : 150 mm ~ 30 : 300 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: DC Input Specifications

■Electric Cylinder Specifications

Land Carrery Ditals	Lead Screw Pitch				6	
		mm	I	2		-
Electromagnetic Brake	e (Power Off Activated		Equipped	Not	Equipped	Not
Type)			Equippou	equipped	Equippou	equipped
Drive Method			Ball Screw			
Repetitive Positioning	Accuracy	mm		±0).02	
Minimum Travel Amou	nt	mm	nm 0.01			
Permissible Moment	Dynamic Permissible Moment	– Nm	Do not apply a radial load or load moment to an electric linear cylinder rod. A simple anti-spin mechanism is already provided, but always be sure to provide an external guide.			
Termissible Women	Static Permissible Moment	IVIII				
Transportable Mass	Horizontal Direction	l.a	30 1	Max.	60 I	Max.
Transportable Mass	Vertical Direction	– kg	15 Max.	_	30 Max.	_
Thrust		N	200	Max.	360	Max.
Push Force	ısh Force N		40	00	500	
Holding Force		N	N 200 360			60
Maximum Speed		mm/s	600 300		00	

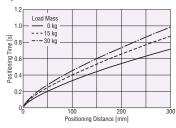
- For specifications and characteristics of 48 VDC input products, contact your nearest sales office.
- The transportable mass specifications apply when using external linear guide.
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.
- The maximum speed may decrease depending on the ambient temperature or the length of the motor cable.

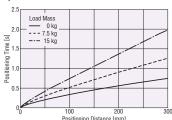
Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

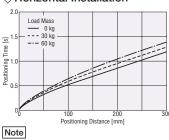
Lead Screw Pitch: 12 mm

♦ Horizontal Installation

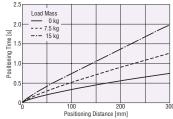


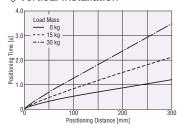


Lead Screw Pitch: 6 mm

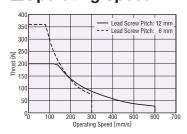


The starting speed should be 6 mm/s max..





■Operating Speed – Thrust



Dimensions

■Electric Cylinders → Page 119

EACM4W: Frame Size 42 mm × 114 mm AC Input Straight Type with Shaft Guide (with Cover)

Product Number

Model	Shaft Guide	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications	Shaft Guide Cover
EACM4	W	D	05	AZ	Α	С	-G
EACM4	W: With Shaft Guide	D : 12 mm E : 6 mm	05: 50 mm 10: 100 mm 15: 150 mm 30: 300 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: AC Input Specifications	With Shaft Guide Cover Blank: No Shaft Guide Cover

■Electric Cylinder Specifications

Lead Screw Pitch		mm	mm 12 6			3
Electromagnetic Brake Type)	Electromagnetic Brake (Power Off Activated Type)				Equipped	Not equipped
Drive Method			Ball Screw			
Repetitive Positioning	Accuracy	mm		±0).02	
Minimum Travel Amou	nt	mm	mm 0.01			
Permissible Moment	Dynamic Permissible Moment	– Nm	Mp:1.3 My:1.3 Mp:0.6			
remissible Montent	Static Permissible Moment	- IVIII	Mp:3.7 My:3.7 Mp:3.0			
Transportable Mass	Horizontal Direction	ka	15 I	Max.	30 Max.	
Transportable Mass	Vertical Direction	– kg	6 Max.	_	13 Max.	_
Thrust		N	70 1	Max.	140	Max.
Push Force		N	10	100 200		00
Holding Force		N	N 70 140			40
Maximum Speed		mm/s	600		300	

[•] The transportable mass specifications apply when using external linear guide. When the linear guide is not used, refer to "Horizontal Transportable Mass".

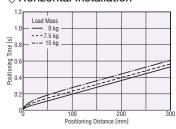
Select a product with an electromagnetic brake for operation in the vertical direction.

Positioning Distance – Positioning Time

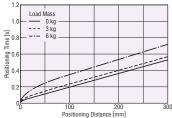
The positioning time (reference) can be checked from the positioning distance.

Lead Screw Pitch: 12 mm

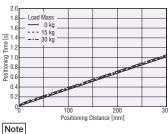
♦ Horizontal Installation



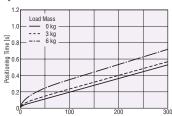
♦ Vertical Installation

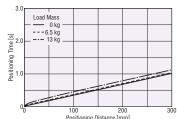


Lead Screw Pitch: 6 mm

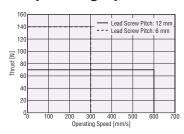


The starting speed should be 6 mm/s max..



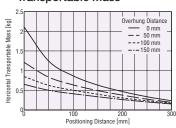


■Operating Speed – Thrust

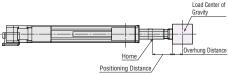


Horizontal Transportable Mass

◇Positioning Distance – Horizontal Transportable Mass



Products equipped with a shaft guide and shaft guide cover can transport loads that are attached directly to the body of the product. Check the horizontal transportable mass in the graph above.



- The positioning distance means the distance from the home position.
- The overhung distance means the distance that the load extends beyond the installation surface.

Dimensions

■Electric Cylinders → Page 121

Electric Linear Slides

CASTEP
AZ Series
Equipped
EZS

CASTEP
AZ Series
Equipped
EAS

Connection

Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction

EACM4RW: Frame Size 42 mm × 114 mm AC Input

Reversed Motor Type with Shaft Guide (with Cover)

Product Number

Model	Motor Orientation	Shaft Guide	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications	Shaft Guide Cover
EACM4	R	W	D	05	AZ	A	С	-G
EACM4	R: Reversed Motor Type	W: With Shaft Guide	D : 12 mm E : 6 mm	05: 50 mm 10: 100 mm 15: 150 mm 30: 300 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: AC Input Specifications	G: With Shaft Guide Cover Blank: No Shaft Guide Cover

■Electric Cylinder Specifications

Lead Screw Pitch		mm	1	2	(}
Electromagnetic Brake Type)	Fauinned Fauinned			Not equipped		
Drive Method			Ball Screw			
Repetitive Positioning	Accuracy	mm		±0	.02	
Minimum Travel Amou	nt	mm	mm 0.01			
Permissible Moment	Dynamic Permissible Moment	— Nm	Mp:1.3 My:1.3 Mn:0.6			
r ettilissible Mottletit	Static Permissible Moment	- IVIII	Mp:3.7 Mv:3.7 Mn:3.0			
Transportable Mass	Horizontal Direction	ka	15 Max.		30 Max.	
Transportable Mass	Vertical Direction	– kg	6 Max.	_	11.5 Max.	_
Thrust		N	70 1	Max.	125	Max.
Push Force		N	N 100 200		00	
Holding Force		N	N 70 125			25
Maximum Speed		mm/s	600		300	

[•] The transportable mass specifications apply when using external linear guide. When the linear guide is not used, refer to "Horizontal Transportable Mass".

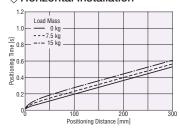
Select a product with an electromagnetic brake for operation in the vertical direction.

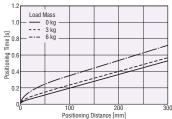
Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

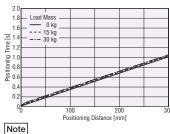
Lead Screw Pitch: 12 mm

♦ Horizontal Installation



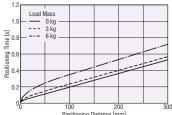


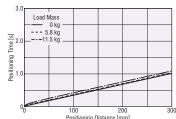
Lead Screw Pitch: 6 mm



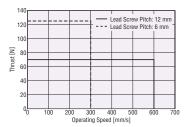
The starting speed should be 6 mm/s max..

♦ Vertical Installation



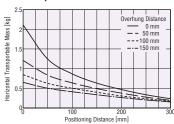


■Operating Speed – Thrust

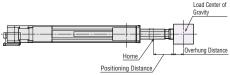


Horizontal Transportable Mass

◇Positioning Distance – Horizontal Transportable Mass



Products equipped with a shaft guide and shaft guide cover can transport loads that are attached directly to the body of the product. Check the horizontal transportable mass in the graph above.



- The positioning distance means the distance from the home position.
- The overhung distance means the distance that the load extends beyond the installation surface.

Dimensions

■Electric Cylinders → Page 122

[•] Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction

EACM4W: Frame Size 42 mm × 114 mm DC Input Straight Type with Shaft Guide (with Cover)

Product Number

Model	Shaft Guide	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications	Shaft Guide Cover
EACM4	W	D	05	AZ	A	K	-G
EACM4	W: With Shaft Guide	D : 12 mm E : 6 mm	05: 50 mm 10: 100 mm 15: 150 mm ~ 30: 300 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: DC Input Specifications	G: With Shaft Guide Cover Blank: No Shaft Guide Cover

■Electric Cylinder Specifications

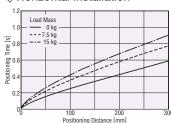
Lead Screw Pitch		mm	1	2		 3
Electromagnetic Brake Type)	Electromagnetic Brake (Power Off Activated Type)				Equipped	Not equipped
Drive Method			Ball Screw			
Repetitive Positioning	Accuracy	mm		±0).02	
Minimum Travel Amou	nt	mm 0.01				
Permissible Moment	Dynamic Permissible Moment	– Nm	Mp:1.3 My:1.3 Mp:0.6			
r ettilissible Mottletit	Static Permissible Moment	- IVIII	Mp:3.7 My:3.7 Mn:3.0			
Transportable Mass	Horizontal Direction	ka	15 Max.		30 Max.	
ITATISPULIABLE IVIASS	Vertical Direction	– kg	6 Max.	_	13 Max.	_
Thrust		N	70 N	Max.	140	Max.
Push Force		N	100 200		00	
Holding Force		N	N 70 140			40
Maximum Speed		mm/s	60	00	300	

- For specifications and characteristics of 48 VDC input products, contact your nearest sales office.
- The transportable mass specifications apply when using external linear guide. When the linear guide is not used, refer to "Horizontal Transportable Mass".
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.
- The maximum speed may decrease depending on the ambient temperature or the length of the motor cable.

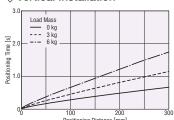
Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

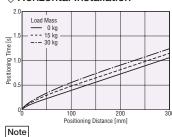
Lead Screw Pitch: 12 mm



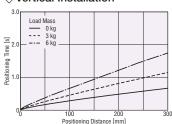
♦ Vertical Installation

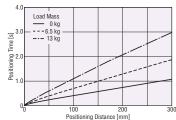


Lead Screw Pitch: 6 mm

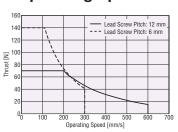


The starting speed should be 6 mm/s max...



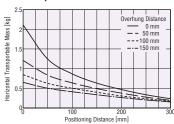


Operating Speed – Thrust

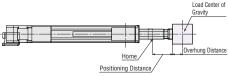


Horizontal Transportable Mass

Transportable Mass



Products equipped with a shaft guide and shaft guide cover can transport loads that are attached directly to the body of the product. Check the horizontal transportable mass in the graph above.



- The positioning distance means the distance from the home position.
- The overhung distance means the distance that the load extends beyond the installation surface.

Dimensions

■Electric Cylinders → Page 121

Electric Linear Slides

CASTEP
AZ Series
Equipped
EZS

CASTEP
AZ Series
Equipped
EAS

Connection

EACM4RW: Frame Size 42 mm × 114 mm DC Input

Reversed Motor Type with Shaft Guide (with Cover)

Product Number

Model	Motor Orientation	Shaft Guide	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications	Shaft Guide Cover
EACM4	R	W	D	05	AZ	A	K	-G
EACM4	R: Reversed Motor	W: With Shaft Guide	D : 12 mm E : 6 mm	05: 50 mm 10: 100 mm 15: 150 mm 30: 300 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: DC Input Specifications	G: With Shaft Guide Cover Blank: No Shaft Guide Cover

■Electric Cylinder Specifications

Lead Screw Pitch	mm	12		6			
Electromagnetic Brake Type)		Equipped	Not equipped	Equipped	Not equipped		
Drive Method	Ball Screw						
Repetitive Positioning Accuracy			±0.02				
Minimum Travel Amount	mm	0.01					
Permissible Moment	Dynamic Permissible Moment	— Nm	Mp:1.3 My:1.3 Ma:0.6				
reillissible Mollielli	Static Permissible Moment	— INIII	Mp:3.7 My:3.7 Mn:3.0				
Transportable Mass	Horizontal Direction	ka	15 Max.		30 Max.		
Halispulable Mass	Vertical Direction	— kg	6 Max.	_	11.5 Max.	_	
Thrust	N	70 Max.		125 Max.			
Push Force	N	100		200			
Holding Force	N	70		125			
Maximum Speed	mm/s	600		300			

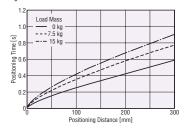
- For specifications and characteristics of 48 VDC input products, contact your nearest sales office.
- The transportable mass specifications apply when using external linear guide. When the linear guide is not used, refer to "Horizontal Transportable Mass".
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.
- The maximum speed may decrease depending on the ambient temperature or the length of the motor cable.

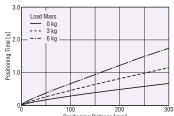
Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

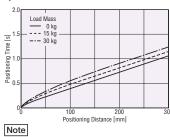
Lead Screw Pitch: 12 mm

♦ Horizontal Installation



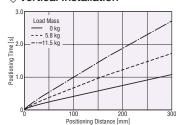


Lead Screw Pitch: 6 mm

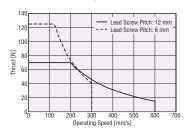


The starting speed should be 6 mm/s max...



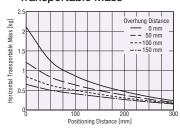


■Operating Speed – Thrust

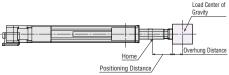


Horizontal Transportable Mass

◇Positioning Distance – Horizontal Transportable Mass



Products equipped with a shaft guide and shaft guide cover can transport loads that are attached directly to the body of the product. Check the horizontal transportable mass in the graph above.



- The positioning distance means the distance from the home position.
- The overhung distance means the distance that the load extends beyond the installation surface.

Dimensions

■Electric Cylinders → Page 122

EACM6W: Frame Size 60 mm × 156 mm AC Input Straight Type with Shaft Guide (with Cover)

Product Number

Model	Shaft Guide	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications	Shaft Guide Cover
EACM6	W	D	05	AZ	A	С	-G
EACM6	W: With Shaft Guide	D : 12 mm E : 6 mm	05 : 50 mm 10 : 100 mm 15 : 150 mm ~ 30 : 300 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: AC Input Specifications	With Shaft Guide Cover Blank: No Shaft Guide Cover

■Electric Cylinder Specifications

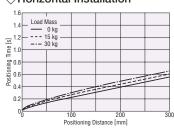
Lead Screw Pitch mm			1	2	(
Electromagnetic Brake (Power Off Activated Type)			Equipped	Not equipped	Equipped	Not equipped
Drive Method				Ball S	Screw	
Repetitive Positioning	Accuracy	mm		±0	.02	
Minimum Travel Amou	nt	mm		0.	01	
Permissible Moment	Dynamic Permissible Moment		Mp:2.2 My:2.2 Mn:1.3			
remissible Moment	Static Permissible Moment	– Nm	Me:7.8 My:7.8 Me:3.0			
Transportable Mass	Horizontal Direction	ka	30 1	Max.	60 N	Max.
iranspurtable iviass	Vertical Direction	– kg	13 Max.	_	28 Max.	_
Thrust		N	200 Max.		400 Max.	
Push Force		N	400		500	
Holding Force		N	200		40	00
Maximum Speed		mm/s	600		300	

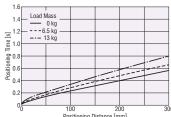
[•] The transportable mass specifications apply when using external linear guide. When the linear guide is not used, refer to "Horizontal Transportable Mass".

Positioning Distance – Positioning Time

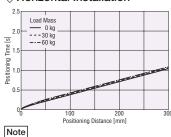
The positioning time (reference) can be checked from the positioning distance.

Lead Screw Pitch: 12 mm

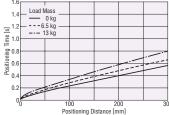


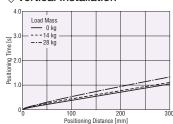


Lead Screw Pitch: 6 mm

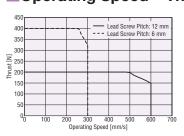


The starting speed should be 6 mm/s max..



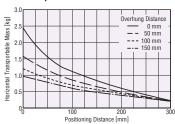


Operating Speed – Thrust

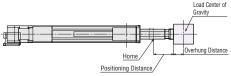


Horizontal Transportable Mass

◇Positioning Distance – Horizontal Transportable Mass



Products equipped with a shaft guide and shaft guide cover can transport loads that are attached directly to the body of the product. Check the horizontal transportable mass in the graph above.



- The positioning distance means the distance from the home position.
- The overhung distance means the distance that the load extends beyond the installation surface.

Dimensions

■Electric Cylinders → Page 123

Electric Linear Slides

CASTEP
AZ Series
Equipped
EZS

CASTEP
AZ Series
Equipped
EAS

Connection

Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.

EACM6RW: Frame Size 60 mm × 156 mm AC Input **Reversed Motor Type with Shaft Guide (with Cover)**

Product Number

Model	Motor Orientation	Shaft Guide	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications	Shaft Guide Cover
EACM6	R	W	D	05	AZ	A	С	-G
EACM6	R: Reversed Motor	W: With Shaft Guide	D : 12 mm E : 6 mm	05: 50 mm 10: 100 mm 15: 150 mm 30: 300 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	C: AC Input Specifications	G: With Shaft Guide Cover Blank: No Shaft Guide Cover

■Electric Cylinder Specifications

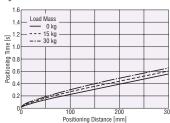
Lead Screw Pitch	Lead Screw Pitch mm			2	(3
Electromagnetic Brake	Electromagnetic Brake (Power Off Activated		Equipped	Not	Equipped	Not
Type)			Lquippeu	equipped	Lquippeu	equipped
Drive Method				Ball S	Screw	
Repetitive Positioning	Accuracy	mm		±0).02	
Minimum Travel Amou	nt	mm		0.	01	
	Dynamic Permissible			M-OOM	.0 0 M1 0	
Permissible Moment	Moment	— Nm	Mp:2.2 My:2.2 Mr:1.3			
L CHIHOSINIC MINHELL	Static Permissible	INIII		Mar 7 Q Ma	:7.8 M _R :3.0	
	Moment		IVIP.7.0 IVIY.7.0 IVIR.3.0			
Transportable Mass	Horizontal Direction	ka	30 Max. 60 M		Vax.	
ITATISPULIANIE IVIASS	Vertical Direction	– kg	13 Max.	_	28 Max.	_
Thrust		N	200 Max.		360 Max.	
Push Force		N	400		500	
Holding Force		N	200		360	
Maximum Speed		mm/s	600		300	

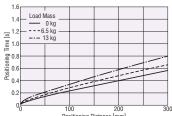
[•] The transportable mass specifications apply when using external linear guide. When the linear guide is not used, refer to "Horizontal Transportable Mass".

Positioning Distance – Positioning Time

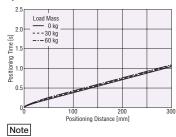
The positioning time (reference) can be checked from the positioning distance.

Lead Screw Pitch: 12 mm

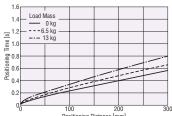


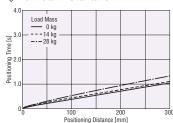


Lead Screw Pitch: 6 mm

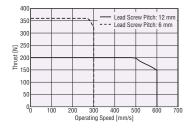


The starting speed should be 6 mm/s max..



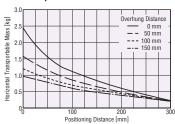


■Operating Speed – Thrust

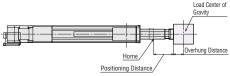


Horizontal Transportable Mass

◇Positioning Distance – Horizontal Transportable Mass



Products equipped with a shaft guide and shaft guide cover can transport loads that are attached directly to the body of the product. Check the horizontal transportable mass in the graph above.



- The positioning distance means the distance from the home position.
- The overhung distance means the distance that the load extends beyond the installation surface.

Dimensions

■Electric Cylinders → Page 124

Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.

EACM6W: Frame Size 60 mm × 156 mm DC Input Straight Type with Shaft Guide (with Cover)

Product Number

Model	Shaft Guide	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications	Shaft Guide Cover
EACM6	W	D	05	AZ	A	K	-G
EACM6	W: With Shaft Guide	D : 12 mm E : 6 mm	05 : 50 mm 10 : 100 mm 15 : 150 mm ~ 30 : 300 mm (50 mm increment)	AZ Series	A: Single Shaft M: With Electromagnetic Brake	K: DC Input Specifications	With Shaft Guide Cover Blank: No Shaft Guide Cover

■ Electric Cylinder Specifications

Lead Screw Pitch mm			12		6	
Electromagnetic Brake (Power Off Activated Type)			Equipped	Not equipped	Equipped	Not equipped
Drive Method				Ball S	Screw	
Repetitive Positioning	Accuracy	mm		±0).02	
Minimum Travel Amou	nt	mm		0.	01	
Permissible Moment	Dynamic Permissible Moment		Mp:2.2 My:2.2 Mr:1.3			
remissible Moment	Static Permissible Moment	— Nm	Mp:7.8 My:7.8 Mp:3.0			
Transportable Mass	Horizontal Direction	l.a	30 Max. 60 Max.		Max.	
Transportable Mass	Vertical Direction	– kg	13 Max.	_	28 Max.	-
Thrust		N	200 Max.		400 Max.	
Push Force		N	400		500	
Holding Force		N	200		400	
Maximum Speed		mm/s	600		300	

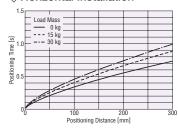
- For specifications and characteristics of 48 VDC input products, contact your nearest sales office.
- The transportable mass specifications apply when using external linear guide.
 When the linear guide is not used, refer to "Herizontal Transportable Mass".
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.
- The maximum speed may decrease depending on the ambient temperature or the length of the motor cable.

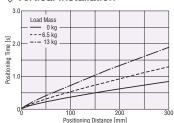
■Positioning Distance – Positioning Time

The positioning time (reference) can be checked from the positioning distance.

Lead Screw Pitch: 12 mm

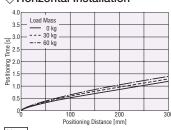
♦ Horizontal Installation



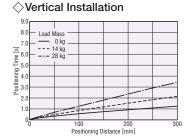


Lead Screw Pitch: 6 mm

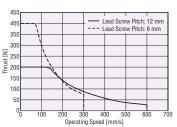
♦ Horizontal Installation



The starting speed should be 6 mm/s max..

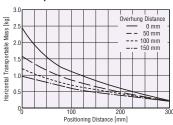


■Operating Speed – Thrust

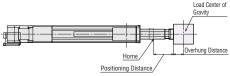


Horizontal TransportableMass

Positioning Distance – Horizontal Transportable Mass



Products equipped with a shaft guide and shaft guide cover can transport loads that are attached directly to the body of the product. Check the horizontal transportable mass in the graph above.



- The positioning distance means the distance from the home position.
- The overhung distance means the distance that the load extends beyond the installation surface.

Dimensions

■ Electric Cylinders → Page 123

Electric Linear Slides

OCSTEP
AZ Series
Equipped
EZS

CLSTEP AZ Series Equipped EAS

Electric

CLSTEP
AZ Series
Equipped
EAC

Driver/ Connection cable

EACM6RW: Frame Size 60 mm × 156 mm DC Input **Reversed Motor Type with Shaft Guide (with Cover)**

Product Number

Model	Motor Orientation	Shaft Guide	Lead Screw Pitch	Stroke	Equipped Motor	Motor Type	Motor Specifications	Shaft Guide Cover
EACM6	R	W	D	05	AZ	A	K	-G
EACM6	R: Reversed Motor	W: With Shaft Guide	D : 12 mm E : 6 mm	05 : 50 mm 10 : 100 mm 15 : 150 mm	AZ Series	A: Single Shaft M:	K: DC Input Specifications	- G : With Shaft Guide Cover
				30 : 300 mm (50 mm increment)		With Electromagnetic Brake		Blank: No Shaft Guide Cover

■ Electric Cylinder Specifications

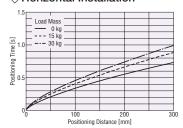
Lead Screw Pitch		mm	12		(6
Electromagnetic Brake (Power Off Activated			Equipped	Not	Equipped	Not
Type)			Equippeu	equipped	Equipped	equipped
Drive Method				Ball S	Screw	
Repetitive Positioning	Accuracy	mm		±0).02	
Minimum Travel Amou	nt	mm		0.	01	
Permissible Moment	Dynamic Permissible Moment		Mp:2.2 My:2.2 Mn:1.3			
r et tillssible Mottletit	Static Permissible Moment	— Nm	Mp:7.8 My:7.8 Mr:3.0			
	Horizontal Direction		30 1	Max.	1 00	Max.
Transportable Mass	Vertical Direction	kg	13 Max.	_	28 Max.	_
Thrust		N	200 Max.		360 Max.	
Push Force		N	400		500	
Holding Force		N	20	200 360		60
Maximum Speed		mm/s	60	600 300		00

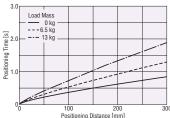
- For specifications and characteristics of 48 VDC input products, contact your nearest sales office.
- The transportable mass specifications apply when using external linear guide. When the linear guide is not used, refer to "Horizontal Transportable Mass".
- Since the holding force is lost when the power is not supplied, the load and external force cannot be held in the vertical direction. Select a product with an electromagnetic brake for operation in the vertical direction.
- The maximum speed may decrease depending on the ambient temperature or the length of the motor cable.

Positioning Distance – Positioning Time

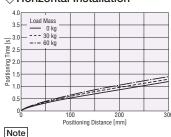
The positioning time (reference) can be checked from the positioning distance.

Lead Screw Pitch: 12 mm



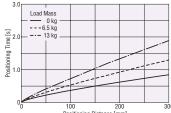


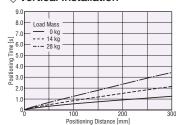
Lead Screw Pitch: 6 mm



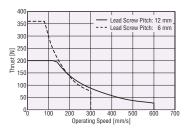
The starting speed should be 6 mm/s max...

♦ Vertical Installation



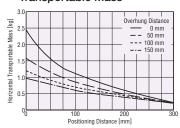


■Operating Speed – Thrust

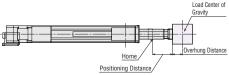


Horizontal Transportable Mass

◇Positioning Distance – Horizontal Transportable Mass



Products equipped with a shaft guide and shaft guide cover can transport loads that are attached directly to the body of the product. Check the horizontal transportable mass in the graph above.



- The positioning distance means the distance from the home position.
- The overhung distance means the distance that the load extends beyond the installation surface.

Dimensions

■Electric Cylinders → Page 124

■ Electromagnetic Brake Specifications

Product Name		EACM4	EACM6	
Brake Type		Power Off Activated Type		
Power Supply Voltage		24 VDC	±5% *	
Power Supply Current	Α	0.08 0.25		
Time Rating		Conti	nuous	

^{*}For the type with an electromagnetic brake, a 24 VDC $\pm 4\%$ specification applies if the wiring distance between the motor and driver is extended to 20 m using a cable.

■General Specifications

		AC Input	DC Input			
Thermal Class		130 (B) [UL/0	CSA: 105 (A)]			
Insulation Resista	nce	 100 MΩ or more when a 500 VDC megger is applied between the following places: Case – Motor Windings Case – Electromagnetic Brake Windings*1 				
Sufficient to withstand the following for 1 minute: EACM4, EACM6 • Case – Motor Windings • Case – Electromagnetic Brake Windings** 1.5 kVAC, 50 Hz or 60 Hz Dielectric Strength Sufficient to withstand the following for 1 minute: EACM2 • Case – Motor Windings EACM4, EACM6 • Case – Motor Windings • Case – Electromagnetic Brake Windings** 1.5 kVAC, 50 Hz or 60 Hz						
Operating	Ambient Temperature	0 to +40°C (N	ion-freezing)*3			
Environment (In Operation)	Ambient Humidity	85% or less (N	on-condensing)			
Atmosphere No corrosive gases or dust. The product should not be exposed to water, oil or other liquids.						
Degree of Protection*2 EACM2: IP40 (excluding installation surfaces and connector locations) EACM4, EACM6: IP66 (excluding installation surfaces and connector locations)						
Multiple Rotation Detection Range in Power OFF State EACM2: ±450 Rotations (900 Rotations) EACM4, EACM6: ±900 Rotations (1800 Rotations)						

^{*1} Only for products with an electromagnetic brake.

Note

Electric Linear Slides

OXSTEP
AZ Series
Equipped
EZS

OXSTEP AZ Series Equipped EAS

Electric

CLSTEP AZ Series Equipped

Driver/ Connection cable

 $[\]ensuremath{\$2}$ Only for motor parts. The degree of protection of the electric cylinder is IP00.

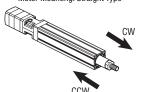
 $[\]ensuremath{\bigstar} 3$ It is based on Oriental Motor's measurement conditions.

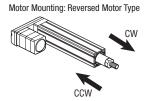
Disconnect the motor and driver when taking an insulation resistance measurement or performing a dielectric voltage withstand test. Also, do not perform these tests on the ABZO sensor (absolute sensor) part of the motor.

Moving Direction

At the time of shipment, the moving direction of the rod is set as shown below.

Motor Mounting: Straight Type



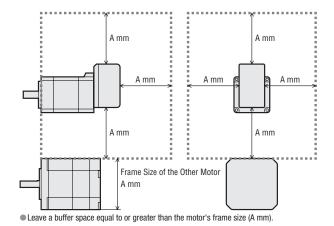


Actuator Installation

When installing the actuator, pay particular attention to the installation location, because the ABZO sensor (absolute sensor) can easily be affected by magnetic force.

When Installing EACM2

When installing the motor parts in parallel, leave a buffer space that is equal to or greater than the motor's size (frame size) both horizontally and vertically.



Reference

The Other Motor	Α
Frame Size 20 mm	20
Frame Size 28 mm	28
Frame Size 42 mm	42
Frame Size 60 mm	60

• When installing the actuator in an environment where a magnetic field is generated

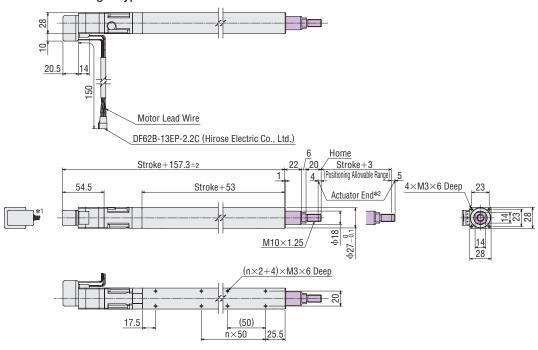
Make sure that the magnetic flux density on the surface of the ABZO sensor (absolute sensor) does not exceed the values in the table.

Product Name	Magnetic Flux Density
EACM2	2 mT*
EACM4, EACM6	10 mT

*When the magnetic flux density exceeding 1 mT and below 2 mT, please use the actuator at ambient temperature exceeding 20°C and below 40°C.

Dimensions (Unit: mm)

● EACM2 Straight Type



●Included Nut (1 Piece)





- *1 The direction of the motor lead can be changed in 90° intervals in four directions.
- *2 At the push-motion return-to-home operation, the rod moves to the mechanical limit position. The push-motion return-to-home operation cannot move the rod to the far end from the motor.
- The shaded areas are moving parts.

Stroke [mm]		50	100	150
Hole Coefficient	t (n)	1	2	3
Mass [kg]	Single Shaft	0.46	0.54	0.61

Electric Linear Slides

OCSTEP
AZ Series
Equipped
EZS

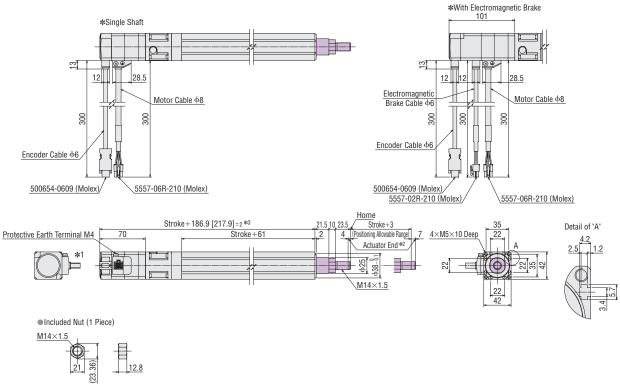
CLSTEP AZ Series Equipped EAS

Electric

CLSTEP
AZ Series
Equipped
FAC

Driver/ Connection cable

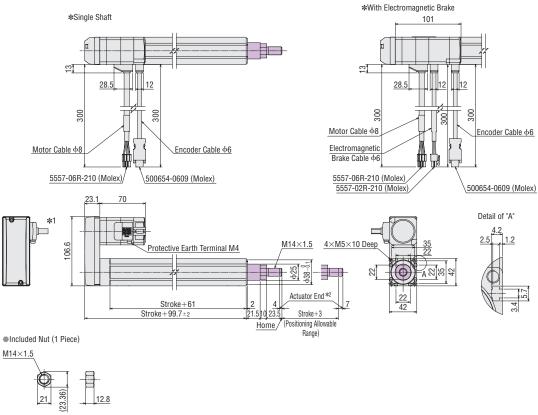
● EACM4 Straight Type



- \$1 The direction of the motor cable can be changed in 90° intervals in four directions.
- *2 At the push-motion return-to-home operation, the rod moves to the mechanical limit position. The push-motion return-to-home operation cannot move the rod to the far end from the motor.
- $\ \ \, \ \ \, \ \ \, \ \ \,$ The brackets [] indicate the values for the electromagnetic brake product.
- The shaded areas are moving parts.

Stroke [mm]		50	100	150	200	250	300
	Single Shaft	1.0	1.2	1.4	1.6	1.7	1.9
Mass [kg]	With Electromagnetic Brake	1.2	1.4	1.6	1.8	1.9	2.1

● EACM4R Reversed Motor Type



 $*1$ The direction of the motor cable can be changed in 90° intervals in three directions.

*2 At the push-motion return-to-home operation, the rod moves to the mechanical limit position. The push-motion return-to-home operation cannot move the rod to the far end from the motor.

The shaded areas are moving parts.

Stroke [mm]		50	100	150	200	250	300
	Single Shaft	1.0	1.2	1.4	1.6	1.7	1.9
Mass [kg]	With Electromagnetic Brake	1.2	1.4	1.6	1.8	1.9	2.1

Electric Linear Slides

CLSTEP
AZ Series
Equipped
EZS

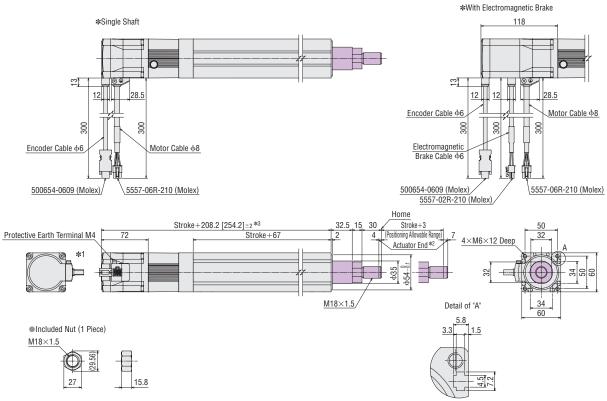
CLSTEP AZ Series Equipped EAS

Electric

CLSTEP AZ Series Equipped

Driver/ Connection cable

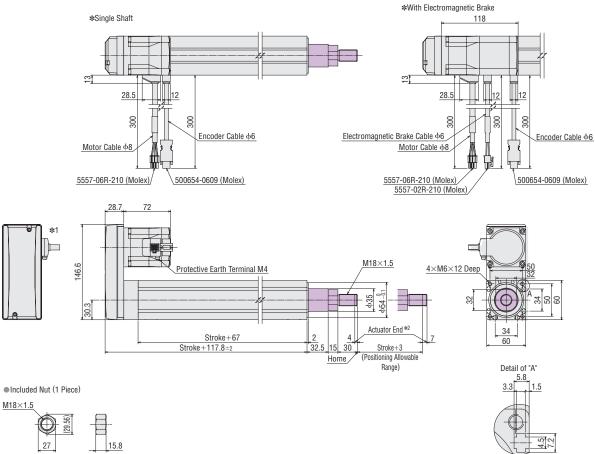
● EACM6 Straight Type



- *1 The direction of the motor cable can be changed in 90° intervals in four directions.
- *2 At the push-motion return-to-home operation, the rod moves to the mechanical limit position. The push-motion return-to-home operation cannot move the rod to the far end from the motor.
- $\ \ \, \ \ \, \ \ \, \ \ \,$ The brackets [$\ \$] indicate the values for the electromagnetic brake product.
- The shaded areas are moving parts.

Stroke [mm]		50	100	150	200	250	300
	Single Shaft	2.6	3.0	3.4	3.7	4.1	4.5
Mass [kg]	With Electromagnetic Brake	3.0	3.4	3.8	4.1	4.5	4.9

● EACM6R Reversed Motor Type



★1 The direction of the motor cable can be changed in 90° intervals in three directions.

*2 At the push-motion return-to-home operation, the rod moves to the mechanical limit position. The push-motion return-to-home operation cannot move the rod to the far end from the motor.

The _______ shaded areas are moving parts.

Stroke [mm]		50	100	150	200	250	300
	Single Shaft	2.6	3.0	3.4	3.7	4.1	4.5
Mass [kg]	With Electromagnetic Brake	3.0	3.4	3.8	4.1	4.5	4.9

Electric Linear Slides

CLSTEP
AZ Series
Equipped
EZS

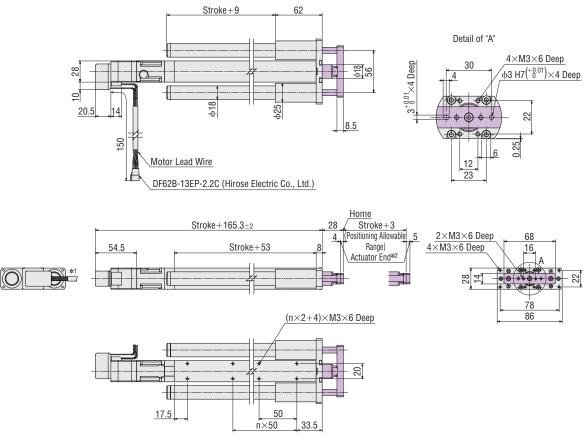
CLSTEP AZ Series Equipped EAS

Electric

CSTEP AZ Series Equipped

Driver/ Connection cable

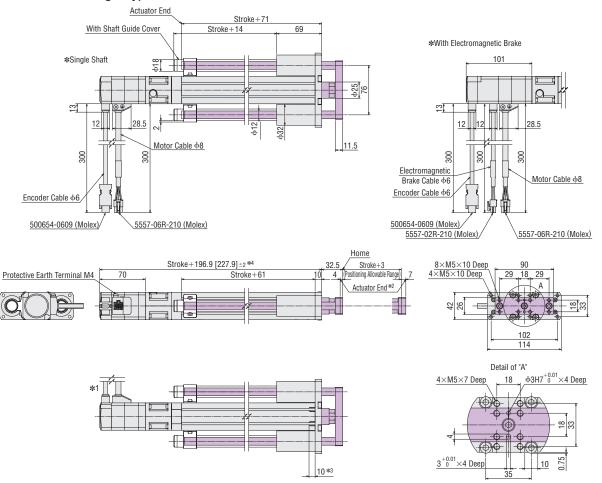
EACM2W Straight Type with Shaft Guide Cover



- \$1 The direction of the motor lead can be changed in 90° intervals in four directions.
- *2 At the push-motion return-to-home operation, the rod moves to the mechanical limit position. The push-motion return-to-home operation cannot move the rod to the far end from the motor.
- The shaded areas are moving parts.

Stroke [mm]		50	100	150
Hole Coefficient (r	1)	1	2	3
Mass [kg]	Single Shaft	0.78	0.92	1.10

● EACM4W Straight Type with Shaft Guide/with Shaft Guide Cover



- \$1 The direction of the motor cable can be changed in 90° intervals in four directions.
- *2 At the push-motion return-to-home operation, the rod moves to the mechanical limit position. The push-motion return-to-home operation cannot move the rod to the far end from the motor.
- $*3$ The installation plate foot type cannot be installed on this part.
- \$4 The brackets [$\,$] indicate the values for the electromagnetic brake product.
- The shaded areas are moving parts.

Stroke [mm]		50	100	150	200	250	300
Maga [kg]	With Shaft Guide	1.7 (1.9)	2.0 (2.2)	2.3 (2.5)	2.5 (2.7)	2.8 (3.0)	3.1 (3.3)
Mass [kg]	With Shaft Guide Cover	1.8 (1.9)	2.1 (2.3)	2.4 (2.6)	2.6 (2.8)	3.0 (3.1)	3.3 (3.5)

 $\hfill \blacksquare$ Values in (\hfill) indicate the mass of the type with an electromagnetic brake.

Electric Linear Slides

CXSTEP
AZ Series
Equipped
EZS

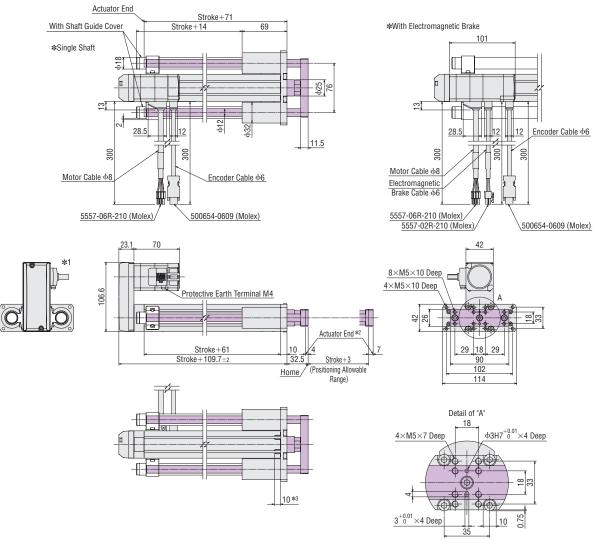
CLSTEP AZ Series Equipped EAS

Electric

CLSTEP AZ Series Equipped

Driver/ Connection cable

● EACM4RW Reversed Motor Type with Shaft Guide/with Shaft Guide Cover



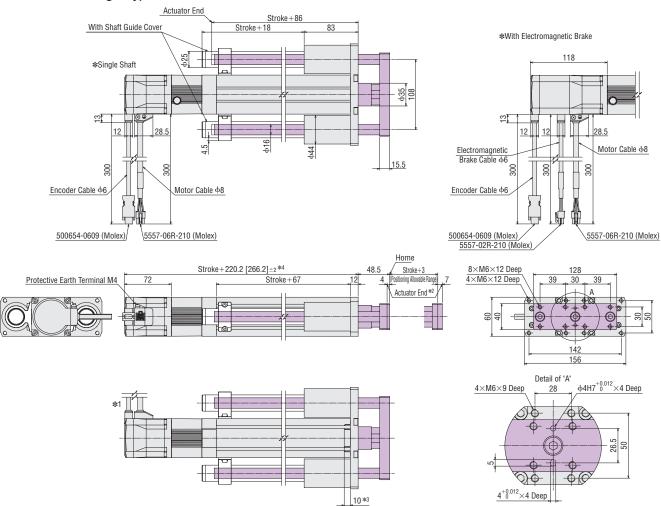
- \$1 The direction of the motor cable can be changed in 90° intervals in three directions.
- *2 At the push-motion return-to-home operation, the rod moves to the mechanical limit position. The push-motion return-to-home operation cannot move the rod to the far end from the motor.
- $\ensuremath{\bigstar} 3$ The installation plate foot type cannot be installed on this part.

The	shaded areas	are moving	parts.

Stroke [mm]		50	100	150	200	250	300
Mass [kg]	With Shaft Guide	1.7 (1.9)	2.0 (2.2)	2.3 (2.5)	2.5 (2.7)	2.8 (3.0)	3.1 (3.3)
iviass [ny]	With Shaft Guide Cover	1.8 (1.9)	2.1 (2.3)	2.4 (2.6)	2.6 (2.8)	3.0 (3.1)	3.3 (3.5)

Values in () indicate the mass of the type with an electromagnetic brake.

● EACM6W Straight Type with Shaft Guide/with Shaft Guide Cover



- \$1 The direction of the motor cable can be changed in 90° intervals in four directions.
- *2 At the push-motion return-to-home operation, the rod moves to the mechanical limit position. The push-motion return-to-home operation cannot move the rod to the far end from the motor.

- The shaded areas are moving parts.

Stroke [mm]		50	100	150	200	250	300
Mass [kg]	With Shaft Guide	4.1 (4.5)	4.7 (5.1)	5.2 (5.6)	5.7 (6.1)	6.3 (6.7)	6.8 (7.2)
iwass [kg]	With Shaft Guide Cover	4.2 (4.6)	4.9 (5.3)	5.4 (5.8)	6.0 (6.4)	6.6 (7.0)	7.2 (7.6)

 $\hfill \blacksquare$ Values in (\hfill) indicate the mass of the type with an electromagnetic brake.

Electric Linear Slides

OXSTEP
AZ Series
Equipped
EZS

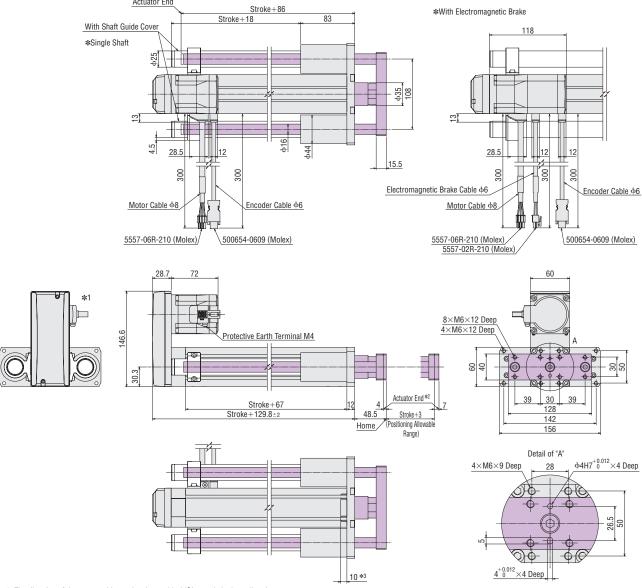
CSTEP AZ Series Equipped EAS

Electric

CASTEP
AZ Series
Equipped

Driver/ Connection cable

● EACM6RW Reversed Motor Type with Shaft Guide/with Shaft Guide Cover



- *1 The direction of the motor cable can be changed in 90° intervals in three directions.
- *2 At the push-motion return-to-home operation, the rod moves to the mechanical limit position. The push-motion return-to-home operation cannot move the rod to the far end from the motor.
- $\ensuremath{\bigstar} 3$ The installation plate foot type cannot be installed on this part.
- The shaded areas are moving parts.

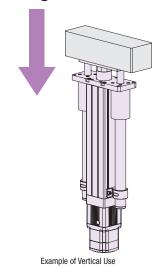
Stroke [mm]		50	100	150	200	250	300
Mass [kg]	With Shaft Guide	4.1 (4.5)	4.7 (5.1)	5.2 (5.6)	5.7 (6.1)	6.3 (6.7)	6.8 (7.2)
ividos [ky]	With Shaft Guide Cover	4.2 (4.6)	4.9 (5.3)	5.4 (5.8)	6.0 (6.4)	6.6 (7.0)	7.2 (7.6)

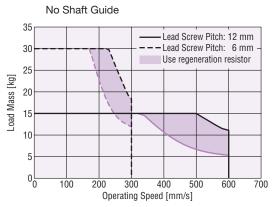
Values in () indicate the mass of the type with an electromagnetic brake.

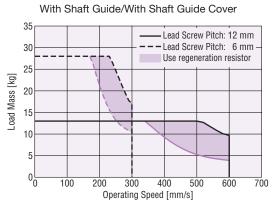
■ About Use of the **EACM6** (AC Input Type) for Vertical Driving

When operating **EACM6*** type electric cylinders 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 Oriental Motor's **RGB100** regeneration resistor to the driver.

*Common to all AC input specifications of **D** (lead screw pitch 12 mm)/**E** (lead screw pitch 6 mm), Straight/ Reversed motor type.







Region in which the regeneration resistor is required for **EACM6** type (AC Input Type)

Regeneration Resistor

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



◇Product Line

Product Name	Applicable Product	List Price
RGB100	AC Input Drivers	45.00 €

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

[•] Install the regeneration resistor in the place which has the same heat radiation capability as heat radiation plate [Material: Aluminum 350 mm×350 mm, 3 mm thick].

Electric Linear Slides

CLSTEP
AZ Series
Equipped
EZS

CLSTEP AZ Series Equipped EAS

Electric

AZ Series Equipped

Driver/ Connection cable

OSTEP AZ Series Drivers (Common to all series)

■Types and Features

■ XSTEP AZ Series Drivers

The drivers can be selected according to the host controller to be used.



Set the positioning data in the driver (256 points). Industrial network control is possible by using a network converter (sold separately).

◇Pulse Input Type with RS-485 Communication



Motor position, speed, alarm and temperature can be monitored by RS-485 communication.



Can be controlled by a positioning module (pulse generator).

Network Compatible Drivers



Drivers compatible with EtherNet/IP, EtherCAT drive profile, and PROFINET. Direct control from the network is possible.

 \bullet For product details, please refer to the AZ Series Brochure.

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

AC Input

Product Number

AZD - C D





1	Driver Type	AZD: AZ Series Driver
2	Power Supply Input	A: Single-Phase 100-120 VAC C: Single-Phase/Three-Phase 200-240 VAC
3	Туре	D: Built-in Controller Type X: Pulse Input Type with RS-485 Communication Blank: Pulse Input Type EP: EtherNet/IP Compatible ED: EtherCAT Drive Profile Compatible PN: PROFINET Compatible

Product Line

Driver

♦ Built-in Controller Type



Power Supply Input	Product Name	List Price
Single-Phase 100-120 VAC	AZD-AD	528.00 €
Single-Phase/Three- Phase 200-240 VAC	AZD-CD	528.00 €



Power Supply Input	Product Name	List Price
Single-Phase 100-120 VAC	AZD-AEP	572.00 €
Single-Phase/Three- Phase 200-240 VAC	AZD-CEP	572.00 €

○Pulse Input Type with RS-485
 Communication



Power Supply Input	Product Name	List Price
Single-Phase 100-120 VAC	AZD-AX	528.00 €
Single-Phase/Three- Phase 200-240 VAC	AZD-CX	528.00 €



Power Supply Input	Product Name	List Price
Single-Phase 100-120 VAC	AZD-AED	572.00 €
Single-Phase/Three- Phase 200-240 VAC	AZD-CED	572.00 €



Power Supply Input	Product Name	List Price
Single-Phase 100-120 VAC	AZD-A	473.00 €
Single-Phase/Three- Phase 200-240 VAC	AZD-C	473.00 €

 \Diamond PROFINET Compatible Type



Power Supply Input	Product Name	List Price
Single-Phase 100-120 VAC	AZD-APN	572.00 €
Single-Phase/Three- Phase 200-240 VAC	AZD-CPN	572.00 €

Included

Type	Connector
Built-in Controller Type Pulse Input Type with RS-485 Communication Pulse Input Type	CN1 Connector (1 pc.) CN4 Connector (1 pc.) CN5 Connector (1 pc.) Connector Lever (1 pc.)
EtherNet/IP Compatible EtherCAT Drive Profile Compatible PROFINET Compatible	CN1 Connector (1 pc.) CN4 Connector (1 pc.) CN7 Connector (1 pc.) Connector Lever (1 pc.)

Driver Specifications

Driver Product Name		AZD-AD AZD-AX AZD-A AZD-AEP AZD-AED AZD-APN	AZD AZD	D-CD D-CX D-C -CEP -CED -CPN	
Main Power Supply	Input Voltage		Single-Phase 100-120 VAC -15 to +6% 50/60 Hz	Single-Phase 200-240 VAC -15 to +6% 50/60 Hz	Three-Phase 200-240 VAC -15 to +6% 50/60 Hz
	Input EASM4, EACM4	EZSM3, EZSM4, EASM4, EACM4	2.7 A	1.7 A	1.0 A
		EZSM6, EASM6, EACM6	3.8 A	2.3 A	1.4 A
Control Power				24 VDC ±5%*1	
Supply				0.25 A (0.5 A)*2	

^{*1} If the electromagnetic brake type is extended 20 m with a cable, the specification becomes 24 VDC±4%.

■General Specifications

		Built-in Controller Type Pulse Input Type with RS-485 Communication EtherNet/IP Compatible EtherCAT Drive Profile Compatible PROFINET Compatible	Pulse Input Type	
Insulation Resistance		100 M Ω or more when a 500 VDC megger is applied between the following places: · Protective Earth Terminal – Main Power Supply Terminal · Encoder Connector – Main Power Supply Terminal · I/O Signal Terminal – Main Power Supply Terminal		
Dielectric Strength Protective Earth Termina Encoder Connector – Ma		Sufficient to withstand the following for 1 minute: Protective Earth Terminal – Main Power Supply Term Encoder Connector – Main Power Supply Terminal 1 I/O Signal Terminal – Main Power Supply Terminal 1	.8 kVAC, 50Hz or 60Hz	
Operating	Ambient Temperature	0 to +55°C (Non-freezing) ^¾		
Environment (In operation)	Ambient Humidity	85% or less (Non-condensing)		
	Atmosphere	No corrosive gases or dust. The product sh	nould not be exposed to water or oil.	
Degree of Protection		IP10 IP20		

^{*} When installing a motor to a heat sink of a capacity at least equivalent to an aluminum plate of 200×200 mm, thickness 2 mm. Note

The drivers and cables to be combined with the actuators are the same as the α Series.

QSTEP AZ Series Brochure is available. When selecting products, please also use the brochure.



Electric Linear Slides

CLSTEP
AZ Series
Equipped
EZS

CLSTEP AZ Series Equipped EAS

Electric Cylinders

> OXSTEP AZ Series Equipped EAC

Driver/ Connection

^{*2} The parentheses () indicate the specifications for the electromagnetic brake type. 0.33 A for **EZSM3**, **EZSM4**, **EASM4** and **EACM4**.

Disconnect the motor and driver when taking an insulation resistance measurement or performing a dielectric voltage withstand test. Also, do not perform these tests on the absolute sensor part of the motor.

DC Input

■Product Number

AZD - K D

1



1	Driver Type	AZD: AZ Series Driver
2	Power Supply Input	K : 24 VDC/48 VDC
3	Туре	D: Built-in Controller Type X: Pulse Input Type with RS-485 Communication Blank: Pulse Input Type EP: EtherNet/IP Compatible ED: EtherCAT Drive Profile Compatible PN: PROFINET Compatible

■Product Line

Driver

♦Built-in Controller Type



Power Supply Input	Product Name	List Price
24/48 VDC	AZD-KD	396.00 €



Power Supply Input	Product Name	List Price
24/48 VDC	AZD-KEP	440.00 €

◇Pulse Input Type with RS-485 Communication



Power Supply Input	Product Name	List Price
24/48 VDC	AZD-KX	396.00 €



Power Supply Input	Product Name	List Price
24/48 VDC	AZD-KED	440.00 €

 \Diamond Pulse Input Type



Power Supply Input	Product Name	List Price
24/48 VDC	AZD-K	341.00 €

 \Diamond PROFINET Compatible Type



Power Supply Input	Product Name	List Price
24/48 VDC	AZD-KPN	440.00 €

Included

Type	Connector
Built-In Controller Type Pulse Input Type with RS-485 Communication Pulse Input Type	CN1 Connector (1 pc.) CN4 Connector (1 pc.)
EtherNet/IP Compatible EtherCAT Drive Profile Compatible PROFINET Compatible	CN1 Connector (1 pc.) CN4 Connector (1 pc.) CN7 Connector (1 pc.)

Driver Specifications

Driver Product	Name		AZD-KD	AZD-KX AZD-K	AZD-KEP AZD-KED AZD-KPN
		EASM2, EACM2	24 VDC±5%		
Main Power	Input Voltage	EZSM3, EZSM4, EZSM6, EASM4, EASM6, EACM4, EACM6	· 24 VDC ±5%*1 · 48 VDC ±5%		· 24 VDC ±5% · 48 VDC ±5%
Supply		EASM2, EACM2	1.6	6 A	1.6 A
	Input Current	EZSM3, EZSM4, EASM4, EACM4	1.72 A (1.8 A)* ²	1.5 A
		EZSM6, EASM6, EACM6	3.55 A (3.8 A)* ²	3.3 A
Control Power	Input Voltage		-	-	24 VDC ±5%*1
Supply	Input Current		-	-	0.15 A (0.4 A)*3

■General Specifications

Common to all drivers

Insulation Resistance		100 $\rm M\Omega$ or more when a 500 VDC megger is applied between the following places: · Protective Earth Terminal – Power Supply Terminal
Dielectric Strength		-
Operating	Ambient Temperature	0 to +50°C (Non-freezing)
Environment	Ambient Humidity	85% or less (Non-condensing)
(In operation)	Atmosphere	No corrosive gases or dust. The product should not be exposed to water or oil.
Degree of Protection		IP10

Note

The drivers and cables to be combined with the actuators are the same as the α -rep AZ Series.

 $\pmb{\mathcal{C}}_{\textit{STEP}} \pmb{\mathsf{AZ}}$ Series Brochure is available. When selecting products, please also use the brochure.



Electric Linear Slides

CLSTEP
AZ Series
Equipped
EZS

CLSTEP AZ Series Equipped EAS

Electric Cylinders

> CXSTEP AZ Series Equipped EAC

Driver/ Connection

 *2 The parentheses () indicate the specifications for the electromagnetic brake type.

^{*3} The parentheses () indicate the specifications for the electromagnetic brake type. 0.23 A for EZSM3, EZSM4, EASM4 and EACM4.

Disconnect the motor and driver when taking an insulation resistance measurement or performing a dielectric voltage withstand test.
 Also, do not perform these tests on the absolute sensor part of the motor.

Cables (Common to all series)

The motor cable and electromagnetic brake cable from the motor cannot be connected directly to the driver.

When connecting to a driver, use a connection cable.

Use the flexible connection cable in applications where the cable is bent and flexed repeatedly.

AC Input

Product Number

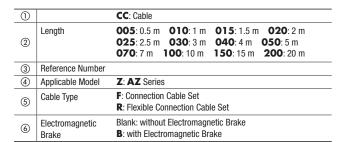
CC 050 V Z F B











Product Line

For motor / Encoder





For Motor

For Encoder

Product Line	Length L [m]	Product Name	List Price
	CC005VZF	0.5	34.00 €
	CC010VZF	1	34.00 €
	CC015VZF	1.5	38.00 €
	CC020VZF	2	44.00 €
	CC025VZF	2.5	49.00 €
Connection	CC030VZF	3	55.00 €
Cable Sets	CC040VZF	4	82.00 €
	CC050VZF	5	92.00 €
	CC070VZF	7	114.00 €
	CC100VZF	10	149.00 €
	CC150VZF	15	206.00 €
	CC200VZF	20	261.00 €
	CC005VZR	0.5	72.00 €
	CC010VZR	1	72.00 €
	CC015VZR	1.5	77.00 €
	CC020VZR	2	83.00 €
.	CC025VZR	2.5	88.00 €
Flexible Connection	CC030VZR	3	93.00 €
Cable Sets	CC040VZR	4	107.00 €
53510 0010	CC050VZR	5	119.00 €
	CC070VZR	7	151.00 €
	CC100VZR	10	200.00 €
	CC150VZR	15	289.00 €
	CC200VZR	20	359.00 €

Included

Type	Operating Manual
Connection Cable	_
Flexible Connection Cable	1 Copy

For Motor / Encoder / Electromagnetic Brake







For Motor

For Encoder

For Electromagnetic Brake

Product Line	Length L [m]	Product Name	List Price
	CC005VZFB	0.5	46.00 €
	CC010VZFB	1	46.00 €
	CC015VZFB	1.5	52.00 €
	CC020VZFB	2	59.00 €
	CC025VZFB	2.5	65.00 €
Connection	CC030VZFB	3	71.00 €
Cable Sets	CC040VZFB	4	102.00 €
	CC050VZFB	5	113.00 €
	CC070VZFB	7	140.00 €
	CC100VZFB	10	180.00 €
	CC150VZFB	15	248.00 €
	CC200VZFB	20	314.00 €
	CC005VZRB	0.5	95.00 €
	CC010VZRB	1	95.00 €
	CC015VZRB	1.5	105.00 €
	CC020VZRB	2	114.00 €
E	CC025VZRB	2.5	119.00 €
Flexible Connection	CC030VZRB	3	127.00 €
Cable Sets	CC040VZRB	4	143.00 €
ouble ools	CC050VZRB	5	161.00 €
	CC070VZRB	7	203.00 €
	CC100VZRB	10	261.00 €
	CC150VZRB	15	365.00 €
	CC200VZRB	20	465.00 €

Product Number

CC 050 V Z F B 2

1











1 CC: Cable $\textbf{005} \colon 0.5 \; \text{m} \quad \textbf{010} \colon 1 \; \text{m} \quad \textbf{015} \colon 1.5 \; \text{m} \quad \textbf{020} \colon 2 \; \text{m}$ Length 2 **025**: 2.5 m **030**: 3 m **040**: 4 m **050**: 5 m **070**: 7 m **100**: 10 m **150**: 15 m **200**: 20 m 3 Reference Number Applicable Product Z: AZ Series Reference Number Blank: EZSM3, EZSM4, EZSM6, EASM4, EASM6 (5) EACM4, EACM6 2: EASM2, EACM2 F: Connection Cable Set Cable Type 6 R: Flexible Connection Cable Set Blank: Without Electromagnetic Brake Description 7 **B**: Electromagnetic Brake Type Cable Specifications 2: DC Input

CLSTEP
AZ Series
Equipped
EZS

Electric Linear Slides

OCSTEP AZ Series Equipped EAS

Electric Cylinders

CASTEP AZ Series Equipped EAC

Peripheral Equipment

■Product Line

For EASM2 and EACM2

For Motor / Encoder



Product Line	Length L [m]	Product Name	List Price
	CC005VZ2F2	0.5	32.00 €
	CC010VZ2F2	1	32.00 €
	CC015VZ2F2	1.5	36.00 €
	CC020VZ2F2	2	42.00 €
	CC025VZ2F2	2.5	47.00 €
Connection	CC030VZ2F2	3	53.00 €
Cable Sets	CC040VZ2F2	4	82.00 €
	CC050VZ2F2	5	92.00 €
	CC070VZ2F2	7	114.00 €
	CC100VZ2F2	10	149.00 €
	CC150VZ2F2	15	206.00 €
	CC200VZ2F2	20	261.00 €
	CC005VZ2R2	0.5	72.00 €
	CC010VZ2R2	1	72.00 €
	CC015VZ2R2	1.5	77.00 €
	CC020VZ2R2	2	83.00 €
E	CC025VZ2R2	2.5	89.00 €
Flexible Connection	CC030VZ2R2	3	77.00 €
Cable Sets	CC040VZ2R2	4	107.00 €
Oubio Obla	CC050VZ2R2	5	119.00 €
	CC070VZ2R2	7	152.00 €
	CC100VZ2R2	10	200.00 €
	CC150VZ2R2	15	280.00 €
	CC200VZ2R2	20	359.00 €

For EASM4, EASM6, EZSM3, EZSM4, EZSM6, EACM4 and EACM6

For Motor / Encoder





For Motor

For Encoder

Product Line	Length L [m]	Product Name	List Price
	CC005VZF2	0.5	32.00 €
	CC010VZF2	1	32.00 €
	CC015VZF2	1.5	36.00 €
	CC020VZF2	2	42.00 €
	CC025VZF2	2.5	47.00 €
Connection	CC030VZF2	3	53.00 €
Cable Sets	CC040VZF2	4	82.00 €
	CC050VZF2	5	92.00 €
	CC070VZF2	7	114.00 €
	CC100VZF2	10	149.00 €
	CC150VZF2	15	206.00 €
	CC200VZF2	20	261.00 €
	CC005VZR2	0.5	72.00 €
	CC010VZR2	1	72.00 €
	CC015VZR2	1.5	77.00 €
	CC020VZR2	2	83.00 €
-	CC025VZR2	2.5	88.00 €
Flexible Connection	CC030VZR2	3	93.00 €
Cable Sets	CC040VZR2	4	107.00 €
Cabic Coto	CC050VZR2	5	119.00 €
	CC070VZR2	7	151.00 €
	CC100VZR2	10	200.00 €
	CC150VZR2	15	289.00 €
	CC200VZR2	20	359.00 €

Included

Included	Operating Manual
Connection Cable	_
Flexible Connection Cable	1 Copy

● For Motor / Encoder / Electromagnetic Brake







For Motor

For Encoder

For Electromagnetic Brake

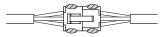
Product Line	Length L [m]	Product Name	List Price
	CC005VZFB2	0.5	44.00 €
	CC010VZFB2	1	44.00 €
	CC015VZFB2	1.5	50.00 €
	CC020VZFB2	2	57.00 €
	CC025VZFB2	2.5	63.00 €
Connection	CC030VZFB2	3	69.00 €
Cable Sets	CC040VZFB2	4	102.00 €
	CC050VZFB2	5	113.00 €
	CC070VZFB2	7	140.00 €
	CC100VZFB2	10	180.00 €
	CC150VZFB2	15	248.00 €
	CC200VZFB2	20	314.00 €
	CC005VZRB2	0.5	95.00 €
	CC010VZRB2	1	95.00 €
	CC015VZRB2	1.5	105.00 €
	CC020VZRB2	2	114.00 €
	CC025VZRB2	2.5	119.00 €
Flexible	CC030VZRB2	3	127.00 €
Connection Cable Sets	CC040VZRB2	4	143.00 €
Capie Seis	CC050VZRB2	5	161.00 €
	CC070VZRB2	7	203.00 €
	CC100VZRB2	10	261.00 €
	CC150VZRB2	15	365.00 €
	CC200VZRB2	20	465.00 €

Note on Use of Cables

Notes on Connecting Connectors

Be sure to hold the connector when connecting or disconnecting the connector.

Connecting or disconnecting the connector while holding the cable may cause poor connection.



Location for holding connectors



♦ When Inserting Connector

Hold the connector main body and insert it firmly and straight. Inserting the connector in an inclined state may cause damage to the terminals or a connection failure.

♦ When Pulling Out Connector

Pull the connector straight out while releasing the lock part of the connector

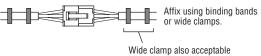
Pulling out while holding the cable may cause damage to the connector.

Note on Wiring of Flexible Cables

Do not bend the cable at the connector part. Stress is applied to the connector and terminals, resulting in poor contact or disconnection.

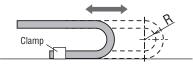
♦ How to Fix Cable

Fix the connector at two positions so that it does not move.



Select an appropriate cable length so that the cable is not under tension even when it is moved.

Bending radius (R) should be at least 6 times of the cable diameter.



When wiring in the cable holder, make sure to prevent contact between cables. Stress is applied to the cable, resulting in early disconnection. Carefully check the precautions for the cable holder before use

Wire the cables so that they are not twisted. Bending in a twisted state may cause early disconnection.

After wiring, check that the cable is not twisted, referring to the printing on the cable surface, etc.

Electric Linear Slides

OCSTEP
AZ Series
Equipped
EZS

CLSTEP AZ Series Equipped EAS

Electric Cylinders

OSTEP
AZ Series
Equipped
EAC

Oriver/ Connection

Peripheral Equipment

Dual-Axis Mounting Brackets (For EZS Series)

Dedicated mounting brackets for using two axes of the EZS Series electric linear slide straight type.









Features

Two axes of the EZS Series can easily be used in combination

Using the dedicated mounting brackets allows you to use two **EZS** Series electric linear slides in a biaxial configuration. Various combinations are available such as X-Y or X-Z.

Available Combinations

X-Y Mounting

\vee \neg	N 4
X-Z	Mounting

X-Axis	Y-Axis	Transportable Mass [kg]	X-Axis	Z-Axis	Transportable Mass [kg]
EZSM4-D	EZSM3-D	2.3 or less	EZSM4-D	EZSM3-D	3.5 or less
EZSM6-D	EZSM3-D	5.7 or less	EZSM6-D	EZSM3-D	3.5 or less
EZSM6-D	EZSM4-D	12.7 or less	EZSM6-D	EZSM4-D	6.7 or less

- Only straight type can be assembled.
- The maximum length of a linear slide for the second axis (Y and Z) is 300 mm.
- This is applicable to products with 12 mm in lead screw pitch (D). Speed is reduced by half for products with 6 mm in lead screw pitch (E).
- Specification values are based on those when the X-axis is mounted horizontally.
- This product is not compatible with use in the clean room environment.

Simple Streamlined Wiring with Dedicated Cable Holder (Cable holder sold separately)

Dedicated cable holders are available.



Product Number

PAB - \$4 \$3 R 005











1	Dual-Axis Mounting Bracket	
2	First Axis Linear Slide	S4: EZSM4-D S6: EZSM6-D
3	Second Axis Linear Slide	S3: EZSM3-D S4: EZSM4-D
4	Combination Patterns	R: R-Type L: L-Type
(5)	Stroke in Second Axis	

First axis refers to X-axis, while second axis refers to Y- or Z-axis.

Product Line

50 mm Incremant

Combination of EZSM4 and EZSM3		Combination of EZSM6 and EZSM3		Combination of EZSM6 and EZSM4		Link Duinn
R -Type	L -Type	R -Type	L -Type	R -Type	L -Type	List Price
PAB-S4S3R005	PAB-S4S3L005	PAB-S6S3R005	PAB-S6S3L005	PAB-S6S4R005	PAB-S6S4L005	198.00 €
PAB-S4S3R010	PAB-S4S3L010	PAB-S6S3R010	PAB-S6S3L010	PAB-S6S4R010	PAB-S6S4L010	203.00 €
PAB-S4S3R015	PAB-S4S3L015	PAB-S6S3R015	PAB-S6S3L015	PAB-S6S4R015	PAB-S6S4L015	208.00 €
PAB-S4S3R020	PAB-S4S3L020	PAB-S6S3R020	PAB-S6S3L020	PAB-S6S4R020	PAB-S6S4L020	213.00 €
PAB-S4S3R025	PAB-S4S3L025	PAB-S6S3R025	PAB-S6S3L025	PAB-S6S4R025	PAB-S6S4L025	218.00 €
PAB-S4S3R030	PAB-S4S3L030	PAB-S6S3R030	PAB-S6S3L030	PAB-S6S4R030	PAB-S6S4L030	223.00 €

Cable Holders (For EZS Series)

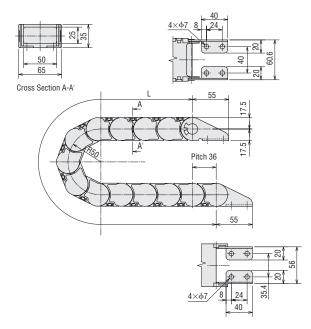
These cable holders protect and guide cables in dual or three axes combinations. They can be combined with the dual-axis mounting brackets.

■Product Line

Applicable Products		Applicable Cable Holder	
Applicable Products	Stroke [mm]	Product Name	List Price
	50 to 70	PACH65-11	102.00 €
	80 to 120	PACH65-13	110.00 €
	130 to 170	PACH65-14	114.00 €
	180 to 220	PACH65-15	118.00 €
	230 to 270	PACH65-17	126.00 €
	280 to 320	PACH65-18	130.00 €
	330 to 370	PACH65-20	138.00 €
	380 to 420	PACH65-21	142.00 €
EZS Series	430 to 470	PACH65-22	146.00 €
	480 to 520	PACH65-24	154.00 €
	530 to 570	PACH65-25	158.00 €
	580 to 620	PACH65-27	166.00 €
	630 to 670	PACH65-28	170.00 €
	680 to 720	PACH65-29	174.00 €
	730 to 770	PACH65-31	182.00 €
	780 to 820	PACH65-32	186.00 €
	830 to 850	PACH65-34	194.00 €



Dimensions (Unit: mm)



Product Name	L [mm]
PACH65-11	396
PACH65-13	468
PACH65-14	504
PACH65-15	540
PACH65-17	612
PACH65-18	648
PACH65-20	720
PACH65-21	756
PACH65-22	792
PACH65-24	864
PACH65-25	900
PACH65-27	972
PACH65-28	1008
PACH65-29	1044
PACH65-31	1116
PACH65-32	1152
PACH65-34	1224

(L represents the total length of the dimensions.)

Electric Linear Slides

> AZ Series Equipped

CXSTEP
AZ Series
Equipped
EAS

Electric Cylinders

> OXSTEP AZ Series Equipped EAC

Driver/ Connection cable

Sensor Sets (For EZS Series)

The sensor sets dedicated to the **EZS** Series consist of three sensors, three sensor mounting brackets, and three flexible sensor cables with connector (2 m) and one shielding plate.

The screws needed for installation are also included.

Product Line

Product Name	Applicable Product	Sensor Output	List Price	
PAES-S	EZS Series	NPN	150.00 €	
PAES-SY	EZS Series	PNP	130.00 €	



Specifications

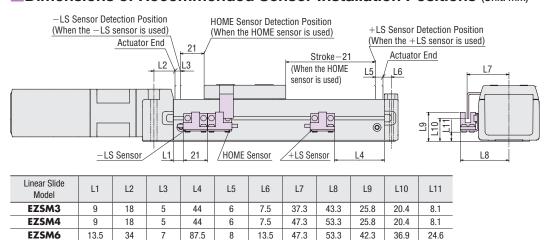
NPN Type

Item	Model: EE-SX674A (OMRON)
Power Supply Voltage	5 to 24 VDC \pm 10%, ripple (P-P) 10% or less
Current Consumption	35 mA or less
Control Output	NPN Open-collector output, 5 to 24 VDC, 100 mA or less Residual voltage 0.8 VDC or less (at load current of 100 mA)
Sensor Logic	Normally open/Normally closed (Switchable, depending on connection)
Indicator LED	Detection display (Red)

PNP Type

Item	Model: EE-SX674R (OMRON)
Power Supply Voltage	5 to 24 VDC \pm 10%, ripple (P-P) 10% or less
Current Consumption	30 mA or less
Control Output	PNP Open-collector output, 5 to 24 VDC, 50 mA or less Residual voltage 1.3 VDC or less (at load current of 50 mA)
Sensor Logic	Normally open/Normally closed (Switchable, depending on connection)
Indicator LED	Detection display (Red)

■ Dimensions of Recommended Sensor Installation Positions (Unit: mm)



Note

If the stroke is 60 mm or less, all three sensors cannot be installed.

Sensor Sets (For EAS Series)

The sensor sets consist of three sensors, three sensor mounting brackets and three flexible sensor cables with connector (2 m) and one shielding plate.

The screws needed for installation are also included.

The product name differs depending on the table type, electric linear slide model number, and sensor output.

Product Line

For X-Table Type

Product Name	Applicable Product	Sensor Output	List Price
PAES-S-2X	EASM2	NPN	
PAES-SY-2X		PNP	
PAES-S-4X	EASM4	NPN	108.00 €
PAES-SY-4X		PNP	100.00 €
PAES-S-6X	EASM6	NPN	
PAES-SY-6X		PNP	

For Y-Table Type

Product Name	Applicable Product	Sensor Output	List Price	
PAES-S-2Y	EASM2	NPN		
PAES-SY-2Y	EASM2	PNP		
PAES-S-4Y	EASM4	NPN	108.00 €	
PAES-SY-4Y	EASM4	PNP	100.00 €	
PAES-S-6Y	EASM6	NPN		
PAES-SY-6Y	EASMO	PNP		



Specifications

NPN Type

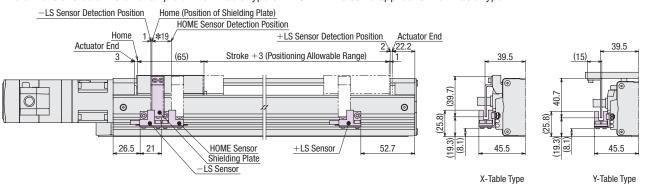
Item	Model: EE-SX674A (OMRON)	
Power Supply Voltage	5 to 24 VDC $\pm 10\%$, ripple (P-P) 10% or less	
Current Consumption	35 mA or less	
Control Output	NPN Open-collector output, 5 to 24 VDC, 100 mA or less Residual voltage 0.8 VDC or less (at load current of 100 mA)	
Sensor Logic	Normally open/Normally closed (Switchable, depending on connection)	
Indicator LED	Detection display (Red)	

PNP Type

Item	Model: EE-SX674R (OMRON)	
Power Supply Voltage	5 to 24 VDC $\pm 10\%$, ripple (P-P) 10% or less	
Current Consumption	30 mA or less	
Control Output	PNP Open-collector output, 5 to 24 VDC, 50 mA or less Residual voltage 1.3 VDC or less (at load current of 50 mA)	
Sensor Logic	Normally open/Normally closed (Switchable, depending on connection)	
Indicator LED	Detection display (Red)	

■ Dimensions of Recommended Sensor Installation Positions (Unit: mm)

The dimensions below is an example of the X-table type of **EASM4**. The same applies to the Y-table type.



 \star This is an example for when the position offset of home-seeking is set to -19 mm in return-to-home operation of the 3-sensor mode.

• For a dimensions of the sensor installation position of other models, refer to the operating manual "Sensor set" or Oriental Motor website.

Electric Linear Slides

> AZ Series Equipped F7S

CLSTEP AZ Series Equipped EAS

Electric Cylinders

CLSTEP
AZ Series
Equipped
EAC

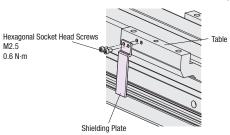
Driver/ Connection cable

■Installation of Shielding Plate

X-Table Type

For the X-table type, the shielding plate can be attached to the linear slide table. Attach the shielding plate that comes with the sensor set to the screw holes on the side of the table.

With the EASM4 and EASM6 with sensor rails, the sensor set cable can be stored inside the sensor rails.







Installation of Sensor Set (EASM4, EASM6)

Installation of Sensor Set (EASM2)

Y-Table Type

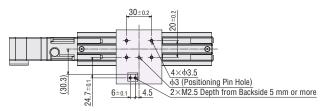
For the Y-table type, attach the shielding plate to the customer's work. It is necessary to process the screw holes that attach the shielding plate to the customer's work.

For the positions of the screw holes for mounting the shielding plate, refer to the dimensions of recommended shielding plate mounting hole position.

The shielding plate must be installed so that it does not interfere with the sensor. The dimensions of the shielding plate for Y-table type is shown below. Check that the sensor and the shielding plate do not interfere with each other. If the accessory shielding plate cannot be used, please prepare the shielding plate yourself.

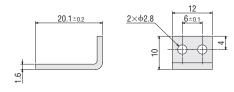
Dimensions of Recommended Shielding Plate Mounting Hole Position (Unit: mm)

EASM2

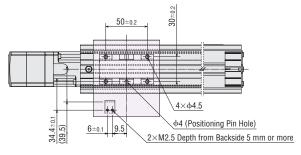


♦ Shielding Plate Dimensions (Unit: mm)

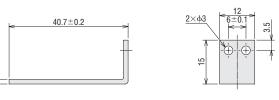
EASM2



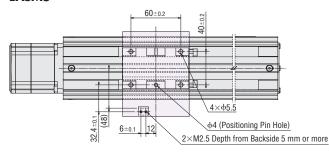
EASM4



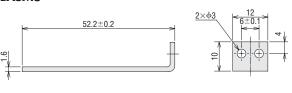
EASM4



EASM6



EASM6



Oriental motor

These products are manufactured at plants certified with the international standards ISO 9001 (for quality assurance) and ISO 14001 for systems of environmental management).

Specifications are subject to change without notice. Published in October 2023.

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