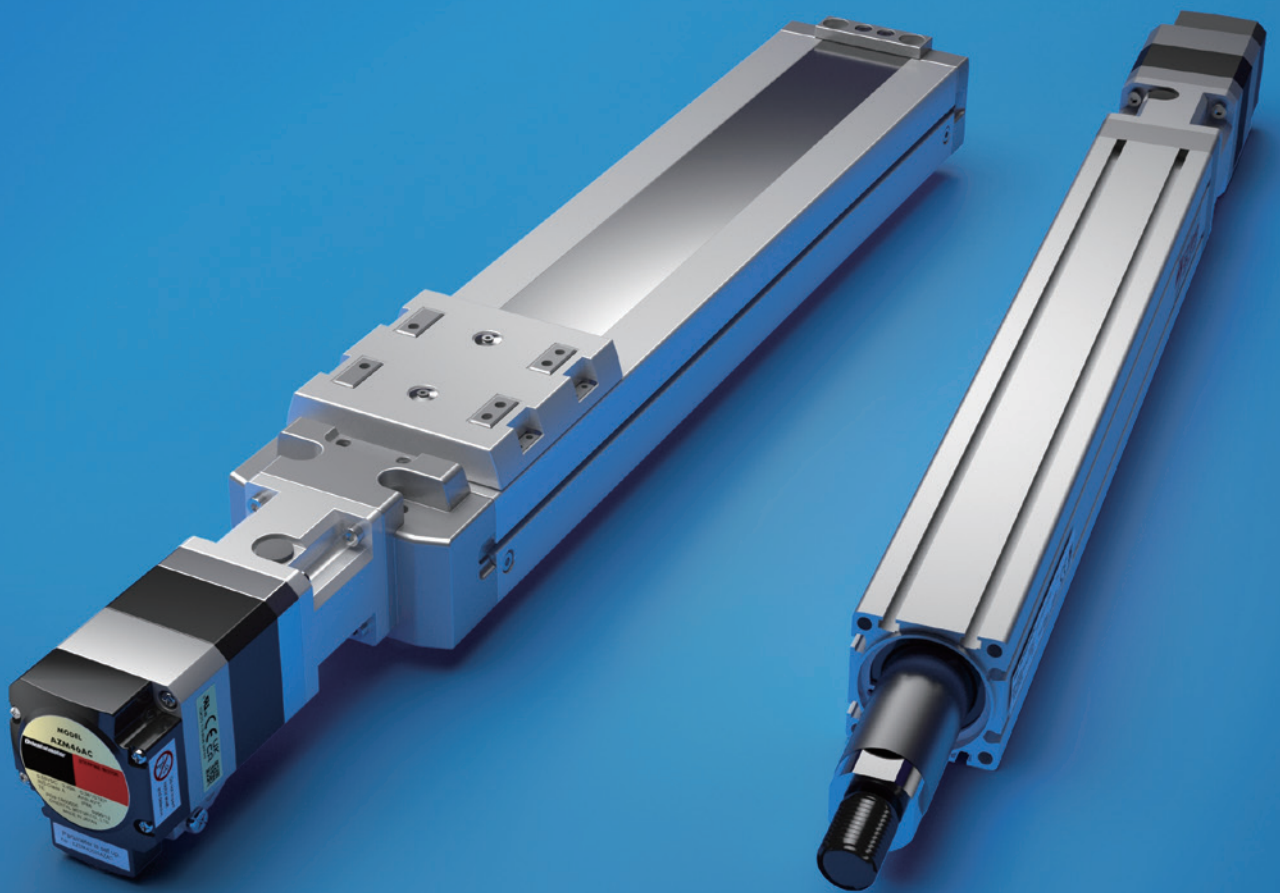


Orientalmotor

*α*STEP AZ Series Equipped

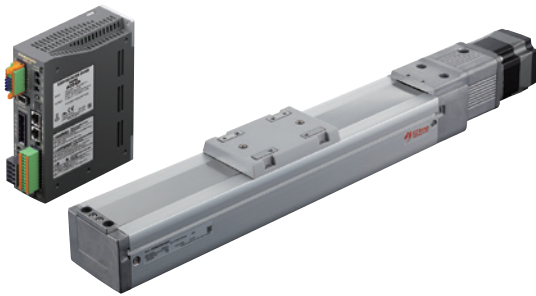
Electric Linear Slides Electric Cylinders



α STEP AZ Series Equipped Electric Linear Slides and Electric Cylinders

Electric Linear Slides

EZS Series



All models have an electromagnetic brake option available.

Flat

High Rigidity

Simple Dust-proof Structure

● Motor Installation Direction

Straight Type



Reversed Motor Type



● For Cleanroom Use



α STEP AZ Series

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

Compact

High Torque

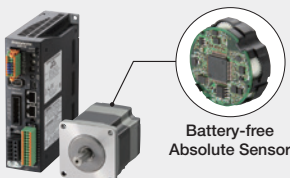
High Response

Low Vibration

No Hunting

High Efficiency

■ 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

α STEP?

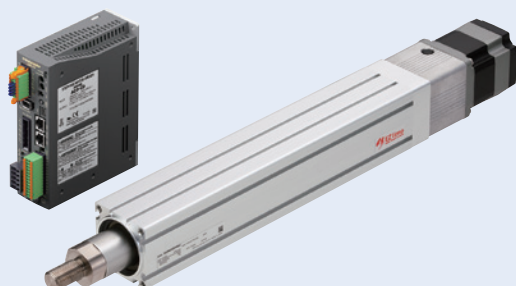
These α STEP stepper motor-based motors offer a unique form of hybrid control that combines the advantages of both open loop control and closed loop control. Under normal conditions, high responsiveness is achieved with open loop control. Under overload conditions, the motor continues to operate with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

Compact

High Rigidity

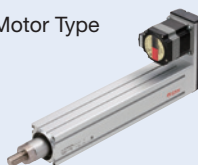
High Thrust Force

●Motor Installation Direction

Straight Type

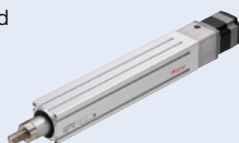


Reversed Motor Type



●Guide Type

Standard



Type with a Shaft Guide



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*STEP AZ** Series.

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.

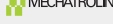


Pulse Input Type

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



Network Compatible

EtherCAT  EtherNet/IP 
PROFINET  MECHATROLINK 
SSCNET III/H 



Multi-axis Driver

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

EtherCAT  EtherNet/IP 
PROFINET  MECHATROLINK 
SSCNET III/H 



■ The ***α*STEP AZ** has a separate catalog. When selecting a product, please also use this individual catalog.



Selection of Electric Linear Slides

Series Type	Product Number Width × Height	Power Supply Voltage	Lead [mm]	Stroke [mm]													Max. Speed [mm/s]					
				100	200	300	400	500	600	700	800	900	§	1500	200	400	600	800	§	2000		
EZS Series <i>QSTEP</i> AZ Equipped Straight Type  Reversed Motor Type  For Cleanroom Use 	EZSM3 54×50 mm	AC Input	12	50 - 700													800					
			6	50 - 700													400					
		DC Input	12	50 - 700													600					
			6	50 - 700													300					
	EZSM4 74×50 mm	AC Input	12	50 - 700													800					
			6	50 - 700													400					
		DC Input	12	50 - 700													600					
			6	50 - 700													300					
	EZSM6 74×66.5 mm	AC Input	12	50 - 850													800					
			6	50 - 850													400					
		DC Input	12	50 - 850													600					
			6	50 - 850													300					

* The dimensions without sensor rails.

	Upper Line: Dynamic Permissible Moment [Nm] Lower Line: Static Permissible Moment [Nm]			Horizontal Transportable Mass [kg]								Vertical Transportable Mass [kg]				Repetitive Positioning Accuracy [mm]
	M _P	M _V	M _R	10	20	30	40	50	60	70	80	10	20	30		
	4.2 26.4	4.2 26.4	10.5 52.0	7.5								3.5			±0.02	
				15										7		
	4.2 26.4	4.2 26.4	10.5 52.0	7.5								3.5			±0.02	
				15										7		
	8 51.2	8 42.5	27.8 176	15								7			±0.02	
				30										14 (12.5) *		
	8 51.2	8 42.5	27.8 176	15								7			±0.02	
				30										14 (12.5) *		
	45.7 290	37.5 187	55.6 340	30								15			±0.02	
				60										30		
	45.7 290	37.5 187	55.6 340	30								15			±0.02	
				60										30		

Various Combined Drivers

Combining both an electric linear slide and electric cylinder, the drivers and cables are common among the **αSTEP AZ** Series.

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 EtherCAT → EtherNet/IP PROFINET → MECHATROLINK SSCNET III/H 	Multi-axis Driver · Can be connected to a DC Input actuator · Drivers with 2-axis, 3-axis and 4-axis connections are available EtherCAT → EtherNet/IP PROFINET → MECHATROLINK SSCNET III/H 
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Selection of Electric Cylinders

Series Type	Product Number Width × Height	Power Supply Voltage	Lead [mm]	Stroke [mm]				Max. Speed [mm/s]								Thrust Force [N]	
				100	200	300	400	100	200	300	400	500	600	700	800		
EAC Series <i>QSTEP AZ</i> Series Equipped Straight Type  Reversed Motor Type 	EACM2 28 × 28 mm	DC Input	6	50 - 150				300								25	
			3	50 - 150				150								50	
	EACM4 42 × 42 mm	AC Input	12	50 - 300				600								- 70	
			6	50 - 300				300								- 140 (125) *	
		DC Input	12	50 - 300				600								- 70	
			6	50 - 300				300								- 140 (125) *	
	EACM6 60 × 60 mm	AC Input	12	50 - 300				600								- 200	
			6	50 - 300				300								- 400 (360) *	
		DC Input	12	50 - 300				600								- 200	
			6	50 - 300				300								- 400 (360) *	
EAC Series <i>QSTEP AZ</i> Series Equipped Straight Type With Shaft Guide Cover  Reversed Motor Type With Shaft Guide Cover  Straight Type Type with a Shaft Guide  Reversed Motor Type Type with a Shaft Guide 	EACM2W 28 × 86 mm	DC Input	6	50 - 150				300								25	
			3	50 - 150				150								50	
	EACM4W 42 × 114 mm	AC Input	12	50 - 300				600								- 70	
			6	50 - 300				300								- 140 (125) *	
		DC Input	12	50 - 300				600								- 70	
			6	50 - 300				300								- 140 (125) *	
	EACM6W 60 × 156 mm	AC Input	12	50 - 300				600								- 200	
			6	50 - 300				300								- 400 (360) *	
		DC Input	12	50 - 300				600								- 200	
			6	50 - 300				300								- 400 (360) *	

*The brackets () indicate the value of the reversed motor type.

	Push Force [N]	Horizontal Transportable Mass [kg]												Vertical Transportable Mass [kg]			Repetitive Positioning Accuracy [mm]
		10	20	30	40	50	60	§	200	400	10	20	30				
	40	7.5									2.5			±0.02			
	80	15									5						
	100	15									7			±0.02			
	200	30									14 (12.5)*						
	100	15									7			±0.02			
	200	30									14 (12.5)*						
	400	30									15			±0.02			
	500	60									30						
	400	30									15						
	500	60									30			±0.02			
	40	7.5									2.0						
	80	15									4.5			±0.02			
	100	15									6						
	200	30									13 (11.5)*			±0.02			
	100	15									6						
	200	30									13 (11.5)*			±0.02			
	400	30									13						
	500	60									28						
	400	30									13			±0.02			
	500	60									28						

Various Combined Drivers

Combining both an electric linear slide and electric cylinder, the drivers and cables are common among the **αSTEP AZ** Series.

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 EtherCAT → EtherNet/IP PROFINET → MECHATROLINK SSCNET III/H 	Multi-axis Driver · Can be connected to a DC Input actuator · Drivers with 2-axis, 3-axis and 4-axis connections are available EtherCAT → EtherNet/IP PROFINET → MECHATROLINK SSCNET III/H 
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Let the **AZ Family** Take Care of It.

The **AZ** Family is a group of closed-loop motors and linear or rotary actuators equipped with the ABZO sensor, all with the same interface (wiring). Common drivers allow for the unification of wiring, control and maintenance parts.

Because they reduce workload and shorten the time required, this product group can simplify future automation projects.

Unification of Wiring, Control and Maintenance

Motors/Geared Motors

Based on torque, accuracy (backlash) and price, the optimal type can be selected. The product line is equivalent to servo motors from 50 W to 750 W.

Standard Type



Frame Size
20 mm - 85 mm

TS Geared (Spur gear mechanism)



Frame Size
42 mm - 90 mm

Right-Angle Shaft FC Geared Type (Face gear mechanism)



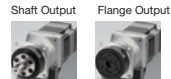
Frame Size
35 mm or 60 mm

PS Geared Type (Planetary gear mechanism)



Frame Size
28 mm - 90 mm

HPG Geared Type (Harmonic planetary[®])



Frame Size
40 mm - 90 mm

Harmonic Geared Type (Harmonic drive[®])



Frame Size
30 mm - 90 mm

Linear & Rotary Actuators

Linear & rotary actuators, consisting of a motor assembled with the necessary mechanical components, are available to meet different needs of automated devices.

Electric Linear Slides



Electric Cylinders



Compact Electric Cylinders



Hollow Rotary Actuators



Rack-and-Pinion Systems



Electric Grippers



Drivers

A wide variety of interface types and power supply input types are available. Drivers that are compatible I/O or pulse input pulse inputs, as well as the major industrial networks used around the globe, are available.



EtherNet/IP



Modbus (RTU)



Pulse

I/O

● Supported interfaces vary depending on the driver type



AC Input
Driver



DC Input Driver



DC Power Supply
Multi-Axis Driver

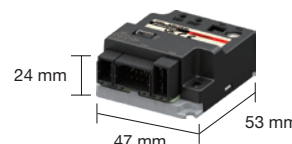
mini Driver (DC input only)

The mini driver has been designed to be smaller and lighter. It can be installed in small spaces and is suitable for integration into battery-powered equipment due to its wide voltage specifications.

Compatible interfaces: EtherCAT, EtherNet/IP, PROFINET, Modbus (TCP, UDP), CC-Link IE Field Basic, Modbus (RTU), Pulse, I/O

AZD-KR2D

(Dimensions for RS-485 communication Modbus type)



Orientalmotor



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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. This catalogue was published in August 2025. Printed in Germany.

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