

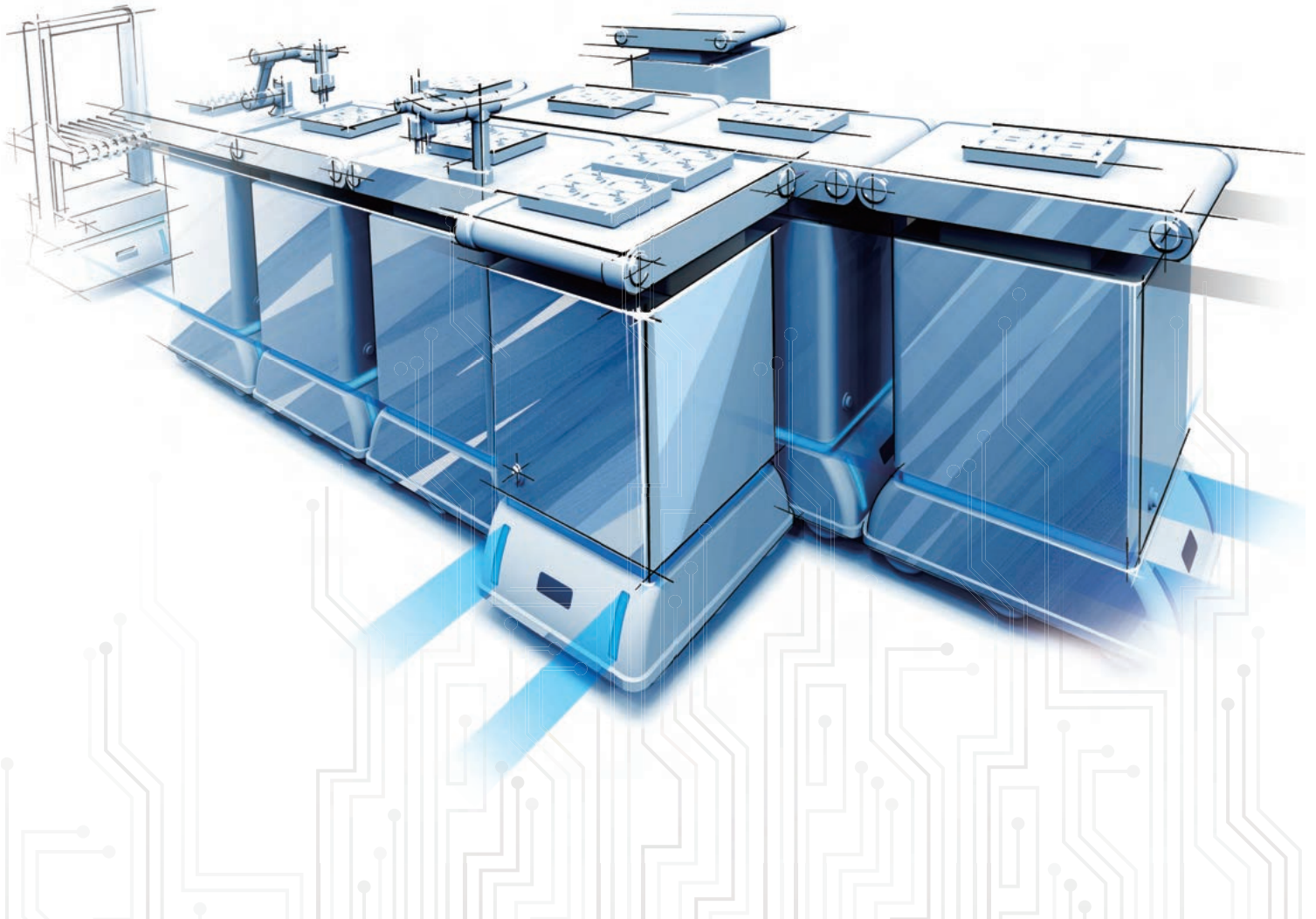
Orientalmotor

PRODUCT GUIDE

Standard AC Motors
Speed Control Motors
Stepping Motors
Motorized Actuators
Cooling Fans
Network Compatible Products

Growing Your Motion

To meet the needs of “movement” anytime, anywhere.



Oriental motor

Oriental Motor started with handmade motors in 1885 in Japan to carry on working on all kinds of “Motion” in the world from AC motors, Speed Control, Position Control, Mechanical Motion to Thermal Management requirements.

Our sales office and network are located internationally with offices through North America, Europe and Asia to provide the optimal motion systems as part of our total service to meet the widest market demands.



Oriental Motor Asia Pacific Headquarters - Singapore Office

Oriental Motor stands by our basic stance of "not just being able to deliver a hundred units to one company but deliver one unit to a hundred customers" through standardizing products. This approach has taught us the different kinds of motion required in every era from high-efficiency motors to meet the demands for more energy saving, lower heat generation to more precise motions required in today's environment. We communicate with our customers from the stage they start studying their equipment through delivery and after-sales service. That is the character of total service and support offered by Oriental Motor.

Our Environmental Efforts : Carbon Neutral

Oriental Motor has proactively supported activities that considers global environmental conservation. Activities such as energy savings, conserving natural resources, waste reduction and carbon dioxide are implemented through various stages of the product life cycle. By providing beneficial products with high efficiency, compact size, high power and long life, Oriental Motor hopes to realize carbon neutrality as there is an urgent need to respond to the global environmental issues.

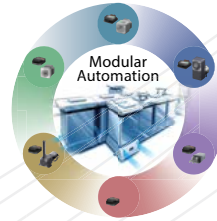
Oriental Motor Brushless Motors supports the switch to carbon neutrality. For example, our BMU Series offers energy-saving performance (IE4-equivalent), small and higher-powered compared against typical motors.



Look out for products with this icon,
this represents that it's carbon neutral
friendly.

Modular Automation

A concept that unleashes the future of automation via limitless opportunities



*Look-out for this badge icon in this product guide as suitable products are tagged with it

αSTEP
AZ Series
Motor, Mini Driver



2



1 ***αSTEP***
AZ Equipped
EH Series
Electric gripper



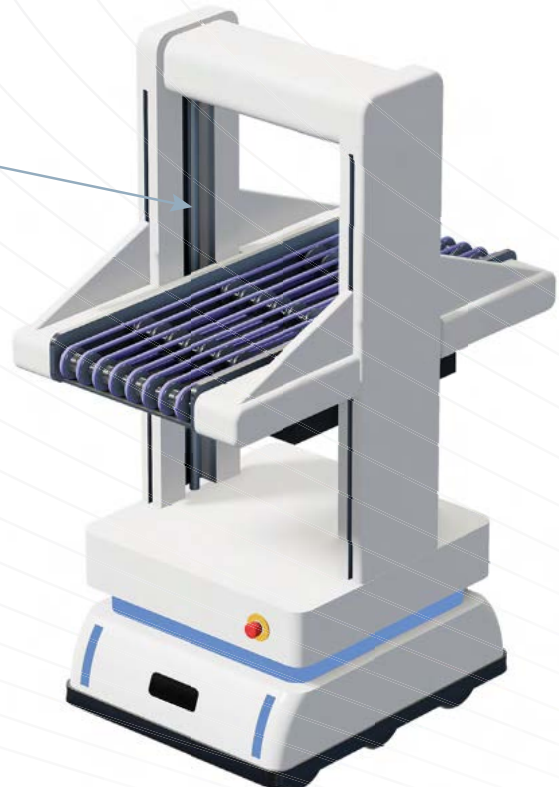
3 **Brushless Motor**
BLV Series R Type
Motor, Driver



αSTEP
AZ Equipped
L Series
Rack-and-Pinion system



4



For trailblazers of new automation at an unprecedented speed, Oriental Motor proposes numerous compact, lightweight and high performance items nurtured by battery powered and world class technology.

The key to a "Layout-free" realization of equipment and lines.



Scan to learn more

Overview of this Product Guide



① HEADER INFORMATION, INDEX

Product category and series names are indicated at the sides of the pages. It is convenient to check the category and series on the current page in one glance.

Product Categories and Colors

- Standard AC Motors
- AC Speed Control Motors / Brushless Motors
- Stepping Motors
- Motorized Actuators
- Cooling Fans Motors
- Network Compatible Products



② QR CODE

When scanning the QR code it will direct you to the indicated page below:

- ✓ Website
- ✓ Videos
- ✓ Price/Lead Time
- ✓ Technical Guide



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*Terms and Condition Applies. Applicable to selected products only.

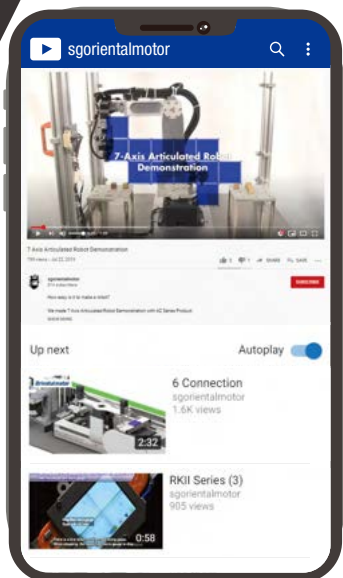
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Standard AC Motors

01- Constant Speed Motors
World **K/FPW** Series



Speed Control Motors

02- Brushless Motors
BMU/BLE2 Series

03- Brushless Motors
BLH/BLV/BLV-R type Series



Stepping Motors

04- α STEP Battery-Free Absolute Sensor Equipped
AZ Series

05- 2-Phase Stepping Motors
PKP Series / **CVD** Series



Motorized Actuators

06- α STEP Motorized Linear Slides / Motorized Cylinders
EZS/EAC Series

07- α STEP Motorized Linear Slides
L/DR/DRS2 Series

08- α STEP Electric Gripper
EH Series

09- α STEP Hollow Rotary Actuators
DGI Series



Cooling Fans Motors

10- Axial Flows Fans
MU/MD/EMU Series



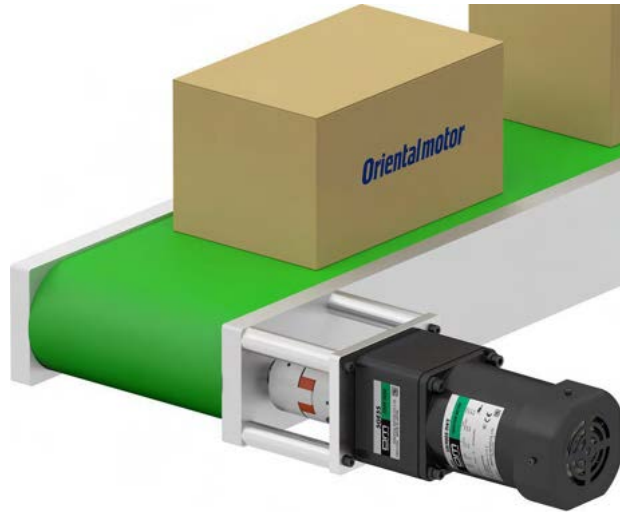
Network Compatible Products

11- Network Controller
Multi Axis Drivers



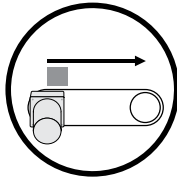
Standard AC Motors

Standard AC Motors and Gear Motors operate by simply connecting a capacitor and supplying power from a commercial supply. Standard AC Motors and Gear Motors include the basic induction motor.



● Belt Conveyor Application

Standard AC Motors Features



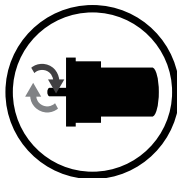
Optimal for Uni-Directional and Continuous Operation

These products are ideal for uni-directional continuous applications such as driving a conveyor.



Cost Saving

As Standard AC motors do not require any controllers for it to operate, this translates to cost-saving without having to purchase additional parts.



High Torque

The maximum torque that can be used during motor operation is now wider. Various type of applications can be equipped with our Standard AC Motors.



Technical Guide

World K / FPW Series

The **World K Series** motors that conforms to the power supply voltage in Asia are electric motors that rotate by using power from a commercial AC power supply. They are easy to handle and have features that can be configured a low cost. They are widely used to drive various applications.

The **FPW Series** is a watertight, dust-resistant AC motor type that can be used in locations that are splashed with water. These models conform to the IP67 rating for the degree of protection under the IEC Standards.

*The motor is not available for use under high pressure jets of water or immersion in water.

Refer to the table below for an overview of our product line-up.



● **World K Series**



● **FPW Series*** (IP 67 rating)



Type of Motor		Constant Speed
Output Power (W)		6 ~ 90
Frame Size (mm)		60 ~ 90
Gearhead Reduction Ratio		3 ~ 180
Output Speed Range (r/min)		*1200
Power Supply Input	Single-Phase (VAC)	100 ~ 230 (50/60 Hz)
	Three-Phase (VAC)	200 ~ 230 (50/60 Hz)

* (r/min) - Revolutions per minute. Speed range varies when equipped with a gearhead



Watch Video

● Example of System Configuration Pricing

Motor
4IK25GN-CW2L2
THB 2,497

+

Gearhead
4GN25KF
THB 2,109

● **World K Series**

Motor + Gearhead
FPW425C2-25E
THB 8,088

● **FPW Series**

● The system configuration shown above is an example. Other combinations are also available.
● Prices shown are accurate as of date of publishing.



● **AWK Series Features**



● **FPW Series Features**

Standard AC Motors

Speed Control Motors

Stepping Motors

Motorized Actuators

Cooling Fans

Network Compatible Products

Brushless Motors

For applications where variable speeds are necessary, typically an AC Motor with an Inverter or brushless motors are used. Brushless DC motors are an advanced option due to their wide speed range, low heat and maintenance-free option.



● Mixing Machine

Brushless Motors Features



Speed Stability

Speed remains stable even if weight of the work changes. This is also known as "Speed Regulation".



Alarm

Various protective functions such as overload/overvoltage protective functions are equipped. An alarm signal will be output when a protective function activates.



Speed Control

Speed control refers to the ability to manipulate the rotational speed of the motor. Typically, a speed feedback device is needed together with a speed controller.



Technical Guide

BMU / BLE2 Series

The **BMU Series** is a compact, high power and high-efficiency motor which does not compromise on user-friendly features at an affordable price. Once the motor and driver are connected, all you need to do for this simple wiring is turn on the switch. Easy speed control with Spin and Push.

The **BLE2 Series** are advanced models that support high functionality and usability using the same high power and efficient motor. Its driver uses a digital display panel allowing for the easy setting of various operations from simple speed control to torque-limiting functions with its functions accessible via our MEXE02 Support Software.

Refer to the table below for an overview of our product line-up.



● BMU Series



● BLE2 Series

(RoHS)

Type of Motor		Speed Control
Output Power (W)		30 ~ 120
Frame Size (mm)		60 ~ 90
Gearhead Reduction Ratio		10, 30
Output Speed Range (r/min)		80 ~ 4000*
Power Supply Input	Single-Phase (VAC)	100 ~ 240 (50/60 Hz)
	Three-Phase (VAC)	200 ~ 240 (50/60 Hz)

* (r/min) - Revolutions per minute. Speed range varies when equipped with a gearhead.



Watch Video

● Example of System Configuration Pricing

Motor + Gearhead		Controller (BMU)	OR	Controller (BLE2)		Cable
BLM230-30B	+	BMUD30-C2		BLE2D30-C	+	CC03BL2
THB 7,506		THB 5,212		THB 7,818		THB 1,558

● The system configuration shown above is an example. Other combinations are also available.
 ● Prices shown are accurate as of date of publishing.



● BMU Series Features



● BLE2 Series Features

Standard AC Motors

Speed Control Motors

Stepping Motors

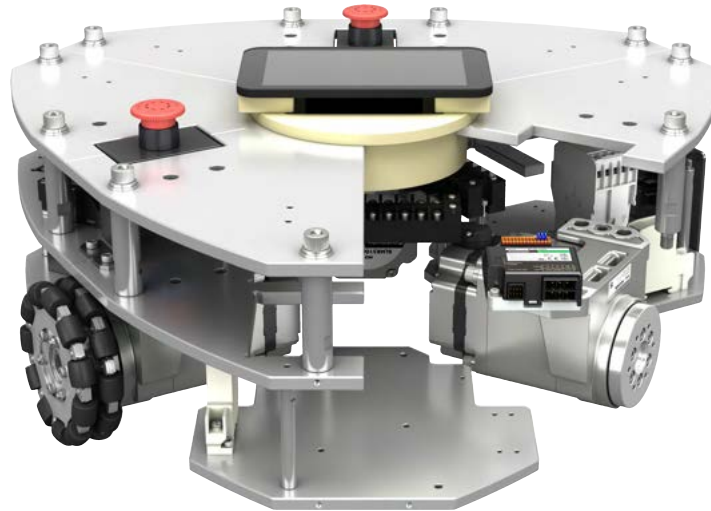
Motorized Actuators

Cooling Fans

Network Compatible Products

Brushless Motors

For applications where variable speeds are necessary, typically an AC motor with an Inverter or Brush motor is used. Brushless DC motors are an advanced option due to their wide speed, low heat, and maintenance-free option.



- Automated Guided Vehicle (AGVs)

Brushless Motors Features



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Alarm

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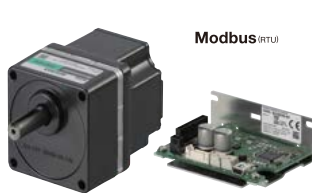


Technical Guide

BLH / BLV / BLV-R Series

When moving objects from point A to B, an Automated Guided Vehicle (AGV) is continuously running and carrying loads. In order to carry its maximum payloads at different speeds, the motor must be able to handle various speeds at constant torque. The wide speed range and flat torque characteristics of the **BLH / BLV / BLV-R Series** brushless motors allow designers maximum flexibility in their designs. Brushless Motors are continuous duty due to their high efficiency. They can be run continuously without additional heat sinks which can help productivity.

Refer to the table below for an overview of our product line-up.



● BLH Series



● BLV Series



● BLV Series R Type



Type of Motor	Speed Control, Electromagnetic Brake
Output Power (W)	15 ~ 400
Frame Size (mm)	42 ~ 104
Gearhead Reduction Ratio	5 ~ 200
Output Speed Range (r/min)	80 ~ 3000* / 1 ~ 3000**
Power Supply Input (VDC)	24 (Up to 200 W Type) 48 (400 W Type)

* (r/min) - Revolutions per minute. Speed range varies when equipped with a gearhead.

** BLV Series R Type



Watch Video

● Example of System Configuration Pricing

Motor + Gearhead		Controller		Connection Cable		Cable Set
BLHM015K-10	+	BLH2D15-K	+	CC02BLH	+	LHS003CC
THB 7,733		THB 3,626		THB 1,586		THB 255

- Prices shown are accurate as of the date of publishing
- For the other system configuration pricing, please scan below or contact us for more information.
- The system configuration show above is an example. Other combinations are also available.
- Modbus is a registered trademark of the Schneider Automation Inc.



● BLH Series Features



● BLV Series Features



● BLV Series R Type Features

Standard AC Motors

Speed Control Motors

Stepping Motors

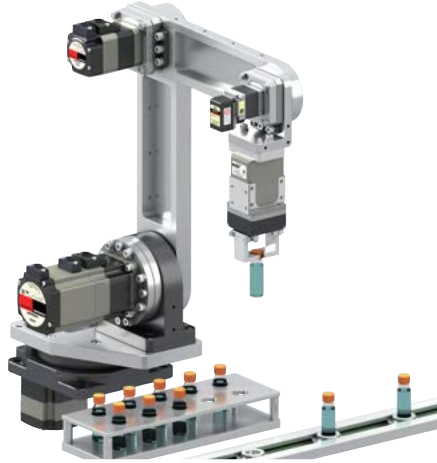
Motorized Actuators

Cooling Fans

Network Compatible Products

Stepping Motors

Stepping or Stepper motors are used to achieve precise positioning via digital control. The motor operates by accurately synchronizing with the pulse signal output from the controller to the driver. Stepper motors, with their ability to produce high torque at low speed while minimizing vibration, are ideal for applications requiring quick positioning over a short distance.



- Robot Arm Application

Closed-Loop Stepping Motors



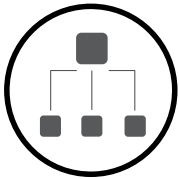
Easy to use

Unlike Servo motors which requires high maintenance in terms of tuning. Stepping motors nowadays perform on equal footing hassle-free.



Operation Setting/Data Setting

You can set and edit operation data and each parameter by a computer. Besides, it can conduct teaching and monitor the condition of each model. A communication cable is required for connecting an applicable product and a computer.



Network Compatible

We have developed our FLEX system which is a general term of products that can be connected to multiple industrial networks. This includes I/O control, Modbus RTU and Factory Automation (FA) network control such as EtherCAT, EtherNET/IP, CC-Link or MECHATROLINK-III.

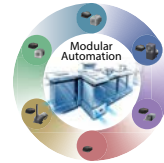


Technical Guide

α STEP AZ Series

The AZ Series Closed-Loop Stepping Motors is a new generation of high precision positioning motors. It is equipped with a batteryless (ABZO) sensor and closed-loop configuration to achieve productivity improvement and cost reduction.

Refer to the table below for an overview of our product line-up.



Type of Motor		Precision, Close-Loop
Resolution (Standard Type) (P/R) (Step)		1000 (0.36 degrees)
Holding Torque (N.m)		0.3 ~ 52
Frame Size (mm)		20 ~ 90
Power Supply Input	Single-Phase (VAC)	100 ~ 230 (50/60 Hz)
	Three-Phase (VAC)	200 ~ 230 (50/60 Hz)
	(VDC)	24/48

*FLEX is a general term of the products that support I/O control, Modbus (RTU) control, and FA network control via a network converter.



Watch Video

● Example of System Configuration Pricing

Motor		Driver (Mini Driver)	OR	Driver (Standard type)		Connection Cable
AZM26AK	+	AZD-KR2D		AZD-K	+	CC030VZ2F2
THB 9,744		THB 13,256		THB 13,256		THB 1,954

- The system configuration shown above is an example. Other combinations are also available.
- Prices shown are accurate as of the date of publishing
- EtherCAT® is a registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.
- Modbus is a registered trademark of the Schneider Automation Inc.



● AZ Mini Driver Features



● AZ Series Features

Standard AC Motors

Speed Control Motors

Stepping Motors

Motorized Actuators

Cooling Fans

Network Compatible Products

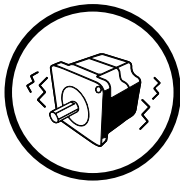
Stepping Motors

Stepper motors enable accurate positioning with ease. They are used in various types of equipment for accurate rotation angle and speed control using pulse signals. Stepper motors generate high torque with a compact body and are ideal for quick acceleration and response and are able to hold standstill positions due to their mechanical design. Stepper motor solutions consist of a driver (which takes pulse signals in and converts them to motor motion) and a stepper motor.



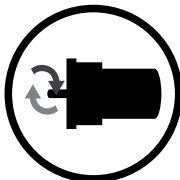
● Visual Stage Inspection

Open-Loop Stepping Motors Features



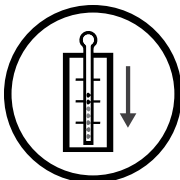
Low Vibration

Revising the magnetic design has achieved lower vibration than conventional products.



High Torque

The maximum torque that can be used during motor operation is now wider. Various types of applications can be equipped with our open-loop stepping motors.



Reduced Temperature Rise

The motor surface temperature rise compared to when operating at low-speeds and high torque regions are significantly reduced.

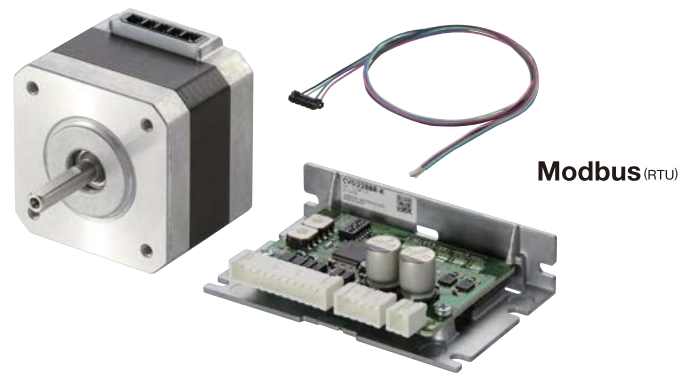


Technical Guide

PKP Series / CVD Series

The **PKP and CVD Series** adopt both a 5 or 2-Phase stepping motor. This series of stepping motors offer higher torque and lower vibration in low operating speed regions. High current is now possible by the revised motor winding design and the highly efficient design of the drive circuit.

Refer to the table below for an overview of our product line-up.



Type of Motor	Precision, Open-Loop
Resolution (Standard Type) (P/R) (Step)	200 (1.8 degrees)
Holding Torque (N.m)	0.02 ~ 9.5
Frame Size (mm)	20 ~ 85
Power Supply Input (VDC)	24



Watch Video

● Example of System Configuration Pricing

Motor		Driver		Connection Cable		Controller
PKP266D28A2	+	CVD228BR-K	+	LC2B10E	+	Pulse Generator*
THB 2,549		THB 4,844		THB 283		

● The system configuration shown above is an example. Other combinations are also available.
● Prices shown are accurate as of date of publishing.
● *Pulse Generator is not supplied.
● Modbus is a registered trademark of the Schneider Automation Inc.



● PKP & CVD Series Features

Standard AC Motors

Speed Control Motors

Stepping Motors

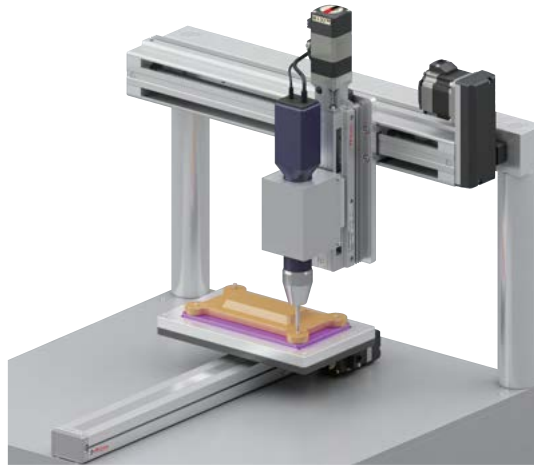
Motorized Actuators

Cooling Fans

Network Compatible Products

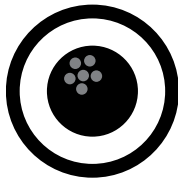
Motorized Actuators

An electric actuator is a combination product consisting of a linear or rotary mechanism and electric motor and when pre-assembled offers an easier design, shorter installation time and high quality. Drawing on our expertise as a motor manufacturer, Oriental Motor offers a wide range of linear motion products in various shapes and sizes, featuring different motor types, drive methods and power inputs.



● Screw Tightening Machine

Motorized Linear Slides / Motorized Cylinders Features



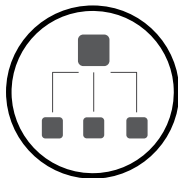
Repeatable & Accurate

The amount of error that is generated when positioning is performed repeatedly to the same position in the same direction is highly dependable with high accuracy.



Operation Setting/Data Setting

You can set and edit operation data and each parameter by a computer. Besides, it can conduct teaching and monitor the condition of each model. A communication cable is required for connecting an applicable product and a computer.



Network Compatible

We have developed our FLEX system which is a general term of products that can be connected to multiple industrial networks. This includes I/O control, Modbus RTU and Factory Automation (FA) network control such as EtherCAT, EtherNET/IP, CC-Link or MECHATROLINK-III.

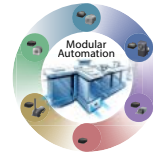


Technical Guide

EZS / EAC Series α STEP AZ Equipped

The motorized linear slides are positioning linear slides that adopt the α STEP AZ Series motors comprising of frames, guide rails, guide blocks, and ball screws. The **EZS/EAC Series** are capable of accurate and precise straight-line motion due to the rotation of ball screws and guides.

Refer to the table below for an overview of our product line-up.



● EZS Series



● EAC Series



Type of Motor	Linear, Precision, Close-Loop	
Stroke (mm)	50 ~ 850	
Maximum Speed (mm/s)	150 ~ 800	
Transportable Mass (kg)	3.5 ~ 60	
Power Supply Input	Single-Phase (VAC)	100 ~ 230 (50/60 Hz)
	Three-Phase (VAC)	200 ~ 230 (50/60 Hz)
	(VDC)	24/48

*FLEX is a general term of the products that support I/O control, Modbus (RTU) control, and FA network control via a network converter.



Watch Video

● Example of System Configuration Pricing

Actuator (EZS)	OR	Actuator (EAC)	+	Driver	+	Connection Cable
EZSM4E005AZAK		EACM4E05AZAK		AZD-KX		CC005VZ2F2
THB 21,846		THB 16,709		THB 15,182		THB 1,161

- The system configuration shown above is an example. Other combinations are also available.
- Prices shown are accurate as of date of publishing.



● EZS Series Features



● EAC Series Features

Standard AC Motors

Speed Control Motors

Stepping Motors

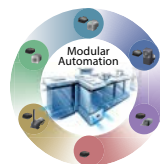
Motorized Actuators

Cooling Fans

Network Compatible Products

L Series α STEP AZ Equipped

The **L Series** is a rack-and-pinion system consisting of an electric actuator, (linear motor) that combines a rack and pinion mechanism and motor. Once the battery-free ABZO sensor AZ series is installed, combined with high-precision positioning, it can carry high loads of up to 100 kg to reduce equipment startup human hours and space-saving.



Refer to the table below for an overview of our product line-up.



Type of Motor	Linear, Precision, Close-Loop	
Stroke (mm)	100 ~ 1000	
Maximum Speed (mm/s)	40 ~ 500	
Transportable Mass (kg)	7 ~ 100	
Power Supply Input	Single-Phase (VAC)	100 ~ 230 (50/60 Hz)
	Three-Phase (VAC)	200 ~ 230 (50/60 Hz)
	(VDC)	24/48



Watch Video

*FLEX is a general term of products that support I/O CONTROL, Modbus (RTU) control, and FA network control via a network converter.

● Example of System Configuration Pricing

Actuator		Driver		Connection Cable
LM2B500AZAC-1	+	AZD-C	+	CC005VZF
THB 25,442		THB 18,298		THB 1,246

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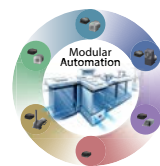


● L Series Features

DR / DRS2 Series α STEP AZ Equipped

The **DR / DRS2 Series** is a compact linear actuator α STEP equipped with a ball screw to achieve linear operation suitable for fine-feeding in linear operation and high-precision positioning.

Refer to the table below for an overview of our product line-up.



● Wide Table Type



● Table Type / Rod Type



Type of Motor	Linear, Precision, Close-Loop	
Stroke	40 ~ 50	
Maximum Speed (mm/s)	50 ~ 200	
Transportable Mass (kg)	5 ~ 10	
Power Supply Input	(VDC)	24/48

*FLEX is a general term of products that support I/O CONTROL, Modbus (RTU) control, and FA network control via a network converter.



Watch Video

● Example of System Configuration Pricing

Actuator		Driver		Connection Cable
DRSM42-04A2AZAK	+	AZD-KX	+	CC005VZ2F2
THB 21,576		THB 15,182		THB 1,161

● The system configuration show above is an example. Other combinations are also available.
● Prices shown are accurate as of the date of publishing



● DR / DRS2 Series Features

Standard AC Motors

Speed Control Motors

Stepping Motors

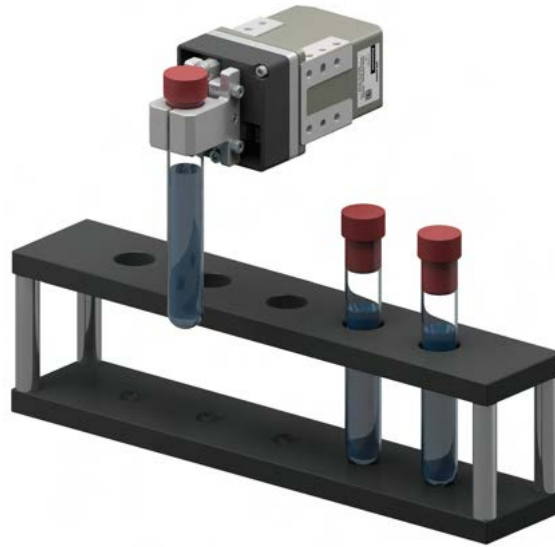
Motorized Actuators

Cooling Fans

Network Compatible Products

Electric Gripper

An electric gripper is a device that grips, coordinates and measures objects to be transported from one point to another. It incorporates a stepper motor with a rack-and-pinion mechanism assembled together to provide the gripping motion.



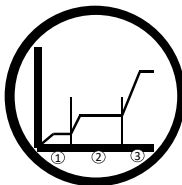
● Test Tube Transport Device

Electric Gripper Features



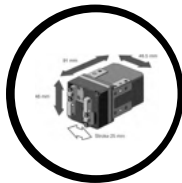
Delicate Grip

Built for delicate gripping which can be achieved by fine-tuning the gripping force in 1% running current increments and implementing a slow approach to the load.



Measure

Size determination and size measurement of loads is possible via the Closed-loop feedback system in the form of numerical values or visualized through waveform monitoring.



Small and Lightweight

The combination of a motor with a frame size of 28 mm and the rack-and-pinion mechanism results in smaller equipment. 25 mm is secured for the stroke of moving parts.

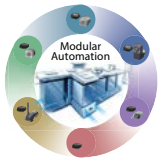


Technical Guide

EH Series α STEP AZ Equipped

The **EH Series** Electric Gripper is a rack-and-pinion mechanism equipped with the **α STEP AZ Series** driver motor to achieve precision gripping. The Electric Gripper has a delicate grip similar to that of a human finger that aids in automation and is efficient in labour-saving.

Refer to the table below for an overview of our product line-up.



Type of Motor	Linear, Precision, Close-Loop	
Stroke (mm)	7.5 ~ 25	
Maximum Speed (mm/s)	78 ~ 156	
Maximum Gripping Force [N]	25	
Power Supply Input	(VDC)	24/48

*FLEX is a general term of products that support I/O CONTROL, Modbus (RTU) control, and FA network control via a network converter.



Watch Video

● Example of System Configuration Pricing

Actuator		Driver		Connection Cable
EH4-AZAKH	+	AZD-KX	+	CC005VZF2
THB 24,550		THB 15,182		THB 1,161

● The system configuration show above is an example. Other combinations are also available.
 ● Prices shown are accurate as of the date of publishing



● EH Series Features

Standard AC Motors

Speed Control Motors

Stepping Motors

Motorized Actuators

Cooling Fans

Network Compatible
Products

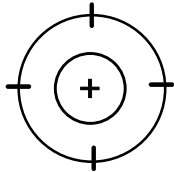
Hollow Rotary Actuators

An electric actuator is a combination product consisting of a linear or rotary mechanism and an electric motor, and when pre-assembled offers an easier design, shorter installation time, and high quality. Drawing on our expertise as a motor manufacturer, Oriental Motor offers a wide range of linear motion products in various shapes and sizes, featuring different motor types, drive methods, and power inputs.



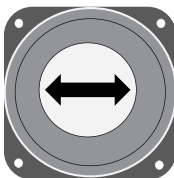
● Robot Arm Application

Hollow Rotary Actuators Features



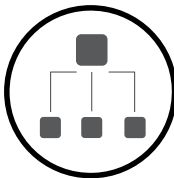
High Positioning Accuracy with Non-Backlash

The amount of error generated when positioning is performed repeatedly in the same position and in the same direction is highly dependable on high accuracy.



High Power and High Rigidity

Tables and arms can be installed directly onto the output table. The hollow centres allow one to save the hassle and cost of designing an installation mechanism and arranging the necessary mechanical parts or wiring.



Network Compatible

We have developed our FLEX system which is a general term of products that can be connected to multiple industrial networks. This includes I/O control, Modbus RTU and Factory Automation (FA) network control such as EtherCAT, EtherNET/IP, CC-Link or MECHATROLINK-III.

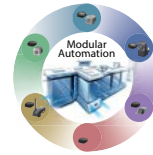


Technical Guide

DGII Series α STEP AZ Equipped

The **DGII Series** integrated hollow rotary tables and stepper motor product line-up now includes models with built-in AZ Series products. The battery-free absolute system positioning contributes to improved productivity and cost reduction.

Refer to the table below for an overview of our product line-up.



Type of Motor	Rotary, Precision, Close-Loop	
Resolution (Standard Type (P/R) (Step)	36000 (0.01 degrees)	
Permissible Moment Load (N.m)	0.9 ~ 50	
Frame Size (mm)	60 ~ 200	
Power Supply Input	Single-Phase (VAC)	100 ~ 230 (50/60 Hz)
	Three-Phase (VAC)	200 ~ 230 (50/60 Hz)
	(VDC)	24/48

*FLEX is a general term of products that support I/O CONTROL, Modbus (RTU) control, and FA network control via a network converter.



Watch Video

● Example of System Configuration Pricing

Actuator	+	Driver	+	Connection Cable
DGM60-AZAK		AZD-KX		CC005VZ2F2
THB 32,148		THB 15,182		THB 1,161

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

● Prices shown are accurate as of date of publishing.



● DGII Series Features

Standard AC Motors

Speed Control Motors

Stepping Motors

Motorized Actuators

Cooling Fans

Network Compatible Products

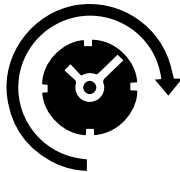
Cooling Fan

Today's comfortable life and society are supported by advanced control systems, which may present many heat sources. To operate these devices without disruption 24 hours a day, 365 days a year, the devices require appropriate heat designs and heat measures. Oriental Motor offers a wide range of heat measure products centered on cooling fans to meet these requirements.



● Control Circuit Cooling Module

Cooling Fan Features



Long life

A highly durable and efficient design, our cooling fans have a long lifespan whilst reassuring a high level of quality performance.



Energy Saving & Low Heat Emission

Our Cooling fans have gone through rigorous testing to ensure that energy standards have been met.



Light Weight

The aluminium frame of the cooling fan coupled with polycarbonate fan blades translates to an overall reduction in weight which ensures your application remains right.



Technical Guide

MU / MD / EMU Series

Axial flow fans use a blade (propeller) to generate airflow in the direction of the axis of rotation. Capable of generating a large airflow, axial flow fans are suited for applications requiring ventilation and cooling where the entire space inside the device must be cooled.

Refer to the table below for an overview of our product line-up.



● MU Series



● MD Series



● EMU Series



Type of Motor		Fan
Frame Size (mm)		80 ~ 119
Thickness (mm)		25 ~ 38
Maximum Air Flow (m³/min)		0.45 ~ 3
Power Supply Input	Single-Phase (VAC)	100 ~ 230 (50/60 Hz)
	(VDC)	24/48



Watch Video

● Example of System Configuration Pricing

Cooling Fan MU Series
MU1238A-51B
THB 1,076

Cooling Fan MD Series
MD1225-12
THB 1,275

● The system configuration shown above is an example. Other combinations are also available.
 ● Prices shown are accurate as of date of publishing.
 ● For EMU Series pricing and features, please enquire us for more information.



● MU Series Features



● MD Series Features

Standard AC Motors

Speed Control Motors

Stepping Motors

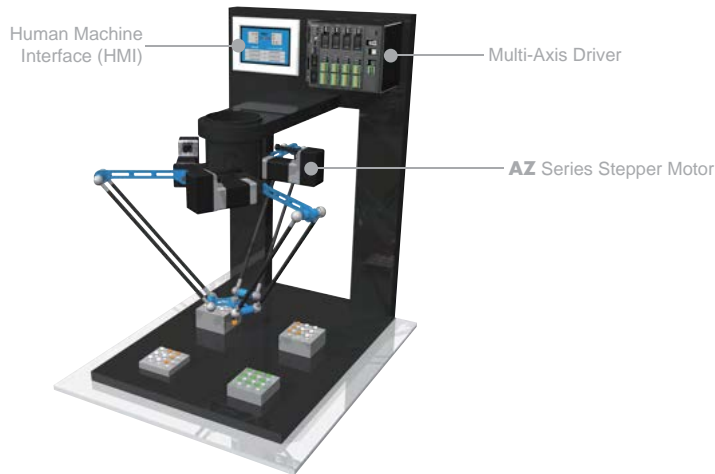
Motorized Actuators

Cooling Fans

Network Compatible
Products

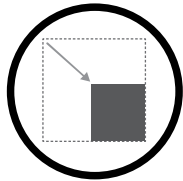
Network Products

There are various demands and needs regarding production equipment, such as cost reduction, shortened launch time for new equipment, productivity improvement, energy-saving, and traceability. However, it is never a good idea to impair equipment performance just to achieve reducing equipment costs because it jeopardizes our competitiveness. To compete against low-cost equipment manufacturers, it has become important to focus on "cost performance" that lowers the cost while maintaining equipment performance, rather than focusing on the mere "cost reduction" aspect. Also, it is essential to bring machines to market as early as possible, to gain an upper hand over competitors. This demand has become even tougher in recent years.



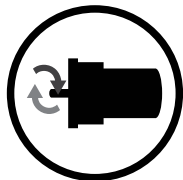
● Spider-Arm Robot Demonstration Unit

Network products Features



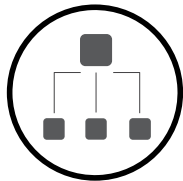
Space Saving

Multi-axis drivers allow multiple drivers to be combined as one, this translates to space-saving in overall dimensions.



Operation Setting / Data Setting

You can set and edit operation data and each parameter by a computer. Besides, it can do teaching and monitor the condition of each model. A communication cable is required for connecting an applicable product and a computer.



Network Compatible

We have developed our FLEX system which is a general term of products that can be connected to multiple industrial networks. This includes I/O control, Modbus RTU and Factory Automation (FA) network control such as EtherCAT, EtherNET/IP, CC-Link or .

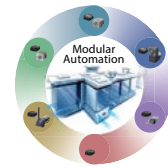


Technical Page

Network Compatible Products

The FLEX Industrial Network Communications products that respond to demands such as "cost reduction" and "shortened equipment launch time" answer this need. Our multi-axis drivers are compatible with the EtherCAT network which is commonly used in today's meta.

Refer to the table below for an overview of our product line-up.



EtherNet/IP Modbus RTU



● Single Axis Driver

EtherCAT MECHATROLINK



● Multi Axis Driver

RoHS FLEX cULus CE

Type of Driver	Network compatible
Number of Axes	1 ~ 4*
Power Supply Input (VDC)	24/48

*FLEX is a general term of products that support I/O CONTROL, Modbus (RTU) control, and FA network control via a network converter.

*Number of axes that our motors may be connected to our network drivers.

*Depending on the network protocol, more axes can be connected together for simultaneous usabilities.



Watch Video

● Example of System Configuration Pricing

Motor	+	Driver	+	Connection Cable Set	+	Cable for Main Power Supply	+	Cable for Control Power Supply
AZM26AK (4 Motors)		AZD4A-KED		CC030VZ2FA (4 Cables)		LC03D06A		LC02D06A
THB 9,744		THB 49,852		THB 2,833		THB 567		THB 510

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

● Prices shown are accurate as of date of publishing.

● EtherCAT® is a registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

● EtherNet/IP™ is a trademark of ODVA (Open DeviceNet Vendor Association).

● PROFIBUS is a trademark or a registered trademark of PROFIBUS Nutzerorganisation e.V. (PNO).

● MECHATROLINK is a registered trademark of the MECHATROLINK Members Association.

● Modbus is a registered trademark of the Schneider Automation Inc.



● Network Products Features

Standard AC Motors

Speed Control Motors

Stepping Motors

Motorized Actuators

Cooling Fans

Network Compatible Products

We provide a full range of services to assist our customers, from consideration of a purchase through to aftersales service.



Customer Support Centre

Dedicated staff provide answers to various questions and advice regarding selection and usage of a motor, technical problems, etc via E-mail, the phone or Live Chat.



Field Service

Dedicated service engineers will visit you when assistance is required on the usage of our products. Please feel free to contact the your nearest sales offices.



Inspection and Repair

Oriental Motor offers free inspection services. Feel free to contact us if you have encountered any problems with or damage to Oriental Motor products. If repair is required, we will advise on the applicable charges. Kindly note that free repair is available if products are used in accordance with the warranty conditions.



Sizing Selection Service

We provide motor selection services, such as calculation of torque, to assist our customers in selecting the right motor.



Technical Seminars / Webinars

Dedicated trainers will go through from the basic motor knowledge to the applied technology and selection of the right motor. In addition, on-site seminars are also available.

You can register for our seminars from our Website.



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