

**Orientalmotor**

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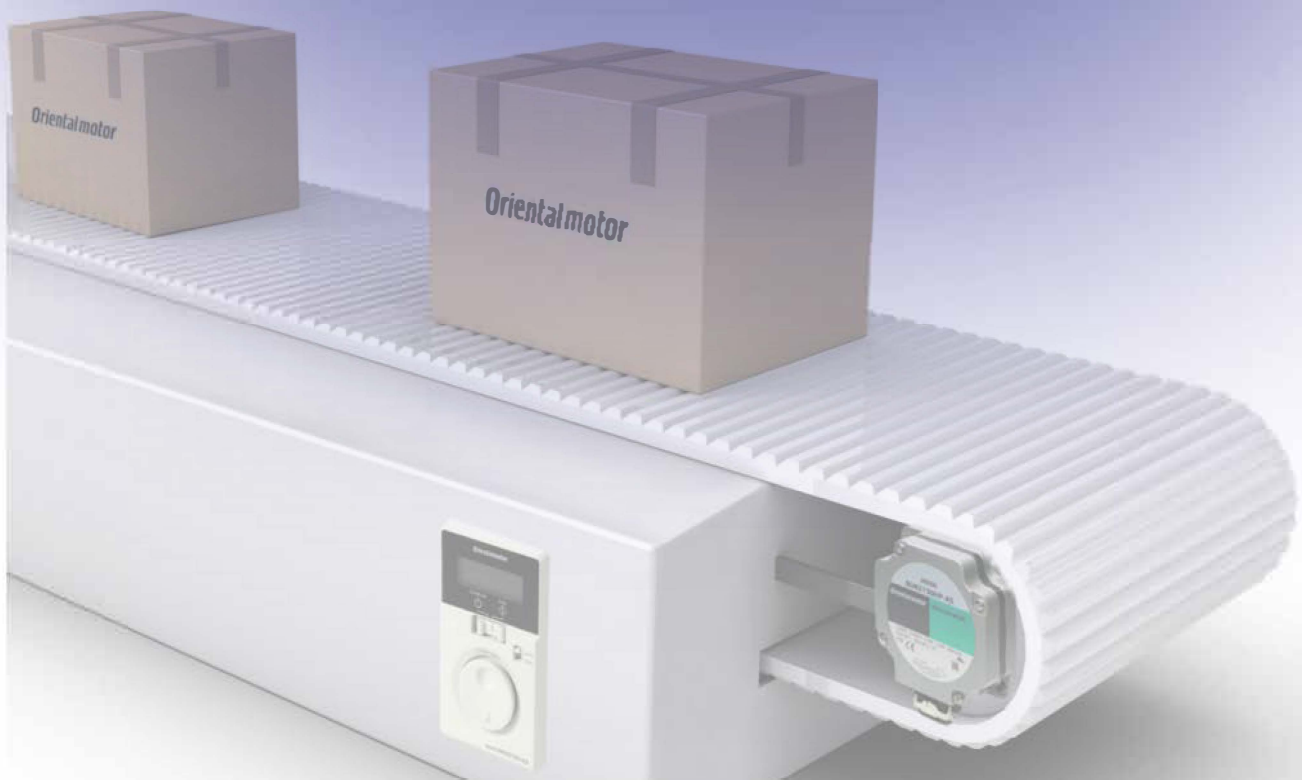


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# Motion Control Solutions for Material Handling

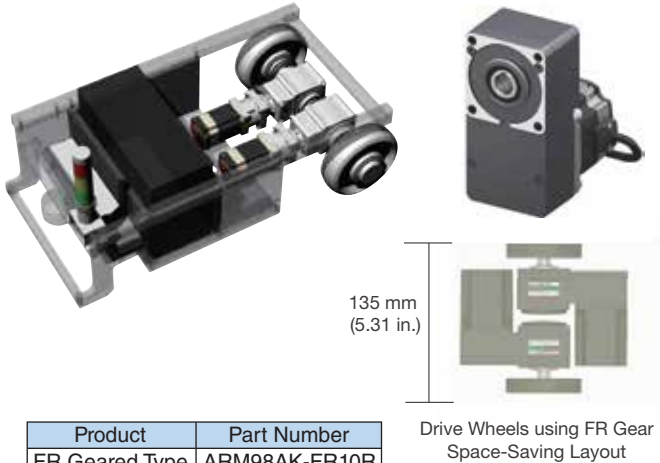


# Application Examples

## AGV



A DC input type motor and driver is offered for AGV/ AMR robots with speed regulation, high torque, and positioning. The FR gear saves space and fits in low floor transport vehicles.

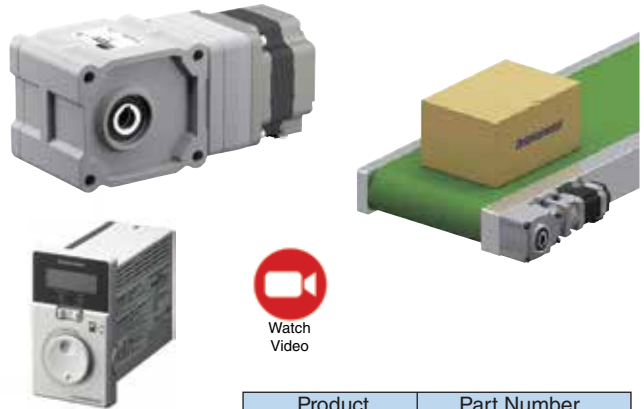


Product	Part Number
FR Geared Type	ARM98AK-FR10R
Stored Data Type	ARD-KD

Drive Wheels using FR Gear Space-Saving Layout

## Speed Control Conveyor

An optimized brushless design saves space with a right-angle hollow shaft gearhead. The BMU series driver is easy to operate with a front mounted dial and digital settings.

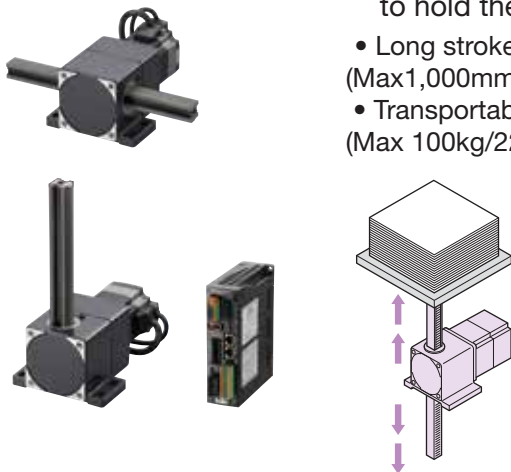


Product	Part Number
BMU Series Motor	BLM5200HPK-5XH20C
BMU Series Driver	BMUD200-C

## Load Unloader

The preassembled Rack & Pinion L series is good for loader & unloader applications. Electromagnetic Brake type is offered to hold the position.

- Long stroke (Max 1,000mm/39.3in)
- Transportable mass (Max 100kg/220lb).



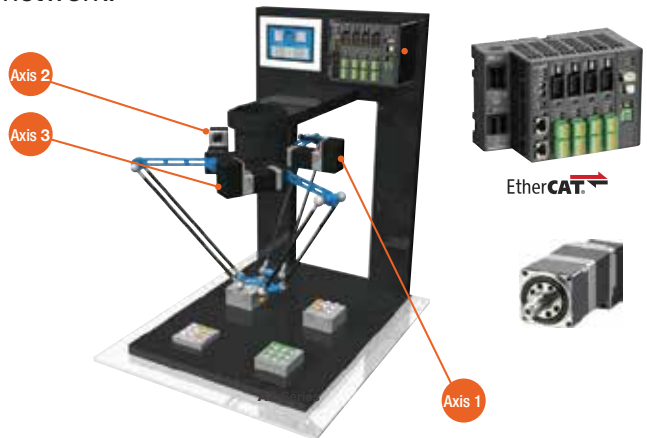
Product	Part Number
Rack & Pinion	LM4F40AZMC-10
AZ Series Driver	AZD-AEP



This 3-axis parallel link robot uses the AZ Series motors and a 3 axis driver. It is controlled by an HMI with a directly connected motion network.

## Parallel Link Robot

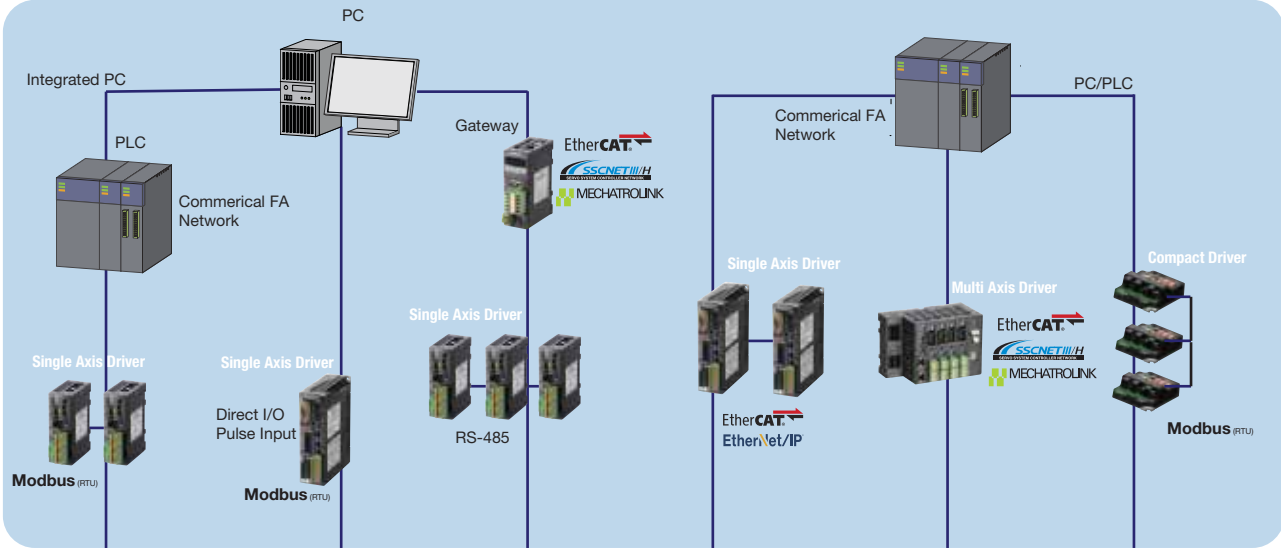
\*Oriental Motor sells the motor and driver parts of this robot, we do not sell complete robotic systems



Product	Part Number
Harmonic Geared Type Motor	AZM24AK-HS50
Multi Axis Driver	AZD3A KED

# Select Your Motor and Communication Control System


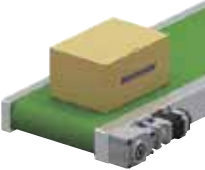

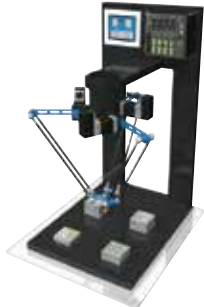


Network Communication



Motor

 <p><b>Hollow Shaft Flat Gears</b></p>	 <p><b>Right Angle FC Gears</b></p>	 <p><b>EZS/ EAC Linear Actuators</b></p>	 <p><b>Harmonic/ Planetary Gears</b></p>	 <p><b>Hollow Rotary Actuators</b></p>	 <p><b>EH Gripper</b></p>
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Application

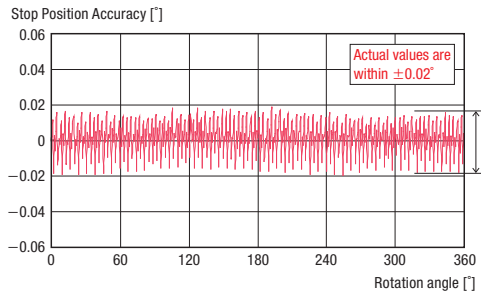
 <p><b>AGV/ AMR</b></p>	 <p><b>Conveyor</b></p>	 <p><b>X-Y-Z Gantry</b></p>	 <p><b>Robot Motors</b></p>	 <p><b>Changing Loads</b></p>	 <p><b>Robot Drivers</b></p>
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# AZ Series $\alpha$ STEP Hybrid Control

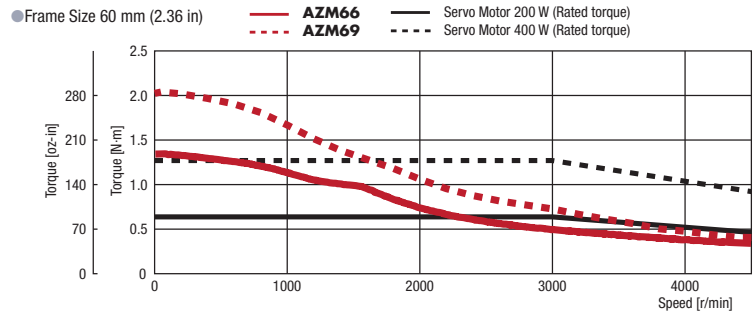


The AZ Series is a “hybrid” stepper motor-based motor & driver system that combines the advantages of the “open loop” set up programming with “closed loop” performance. In addition to high-accuracy positioning and speed control, it can perform control that restricts the motor's generated torque to a set value for push-motion operation.

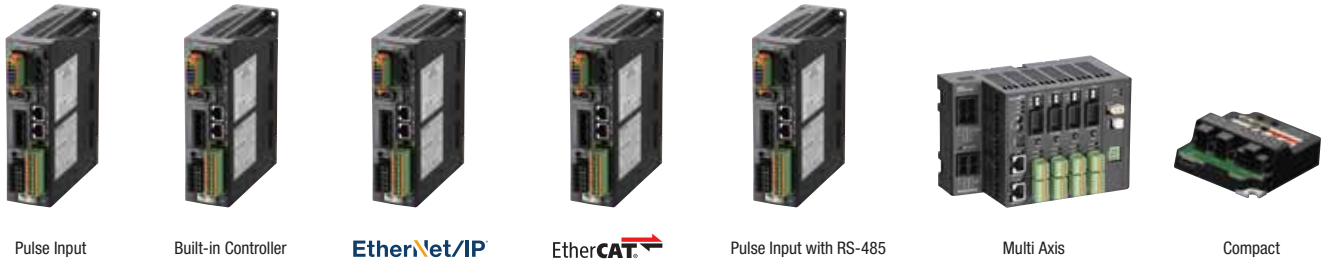
## ● Stopping Accuracy



## ● High Performance



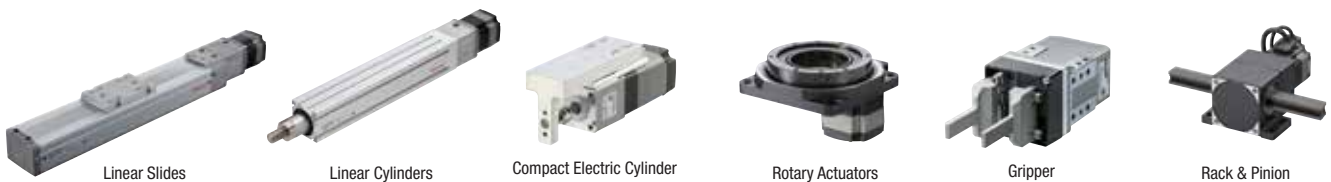
## Drivers



## Motor/ Geared Types

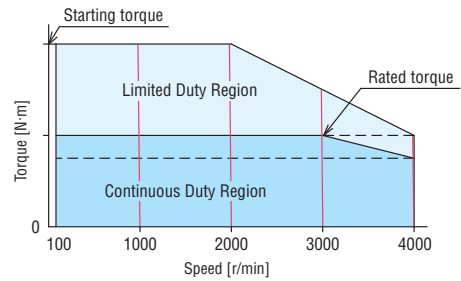


## Actuator Types

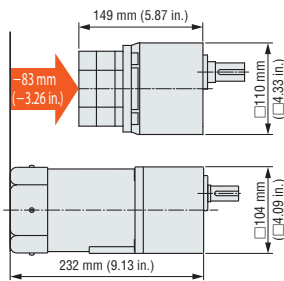


# Brushless DC Motors

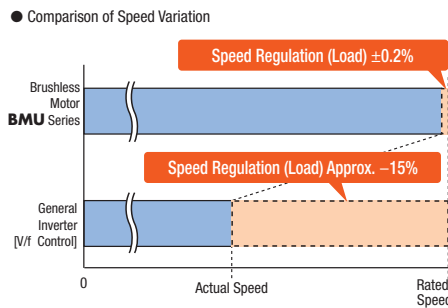
Brushless motors maximize system efficiency and can move heavy loads with a compact drive system. They provide high torque with a wide speed range. Compared to AC motors, Brushless motors save space, offer more speed stability, and reduce power consumption.



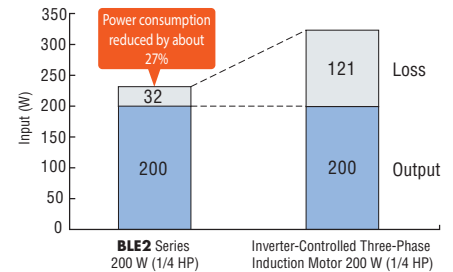
## ● More Compact



## ● Speed Stability



## ● Save Energy

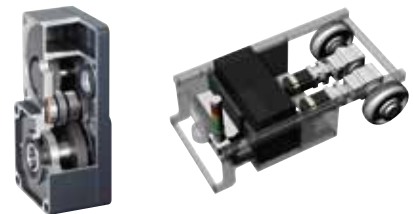


## BLH/ BLV Series



- Input Voltage: 24/48VDC
- Out put: BLH Series 15W~100W  
BLV Series 200W/400W
- Parallel shaft gearhead / Parallel hollow shaft flat gearhead
- Flange drive adapter with bearings for AGV or work stations
- Electromagnetic brake is available
- RS-485 communication is available

- Hollow Shaft Flat Gear (FR Type) for AGV



- Stop Position Maintained Using Electromagnetic Brake



## BMU/ BLE2 Series

- IP67 Degree of Protection

- H1 Food Grade Grease

\*Only available with IP66 degree of protection



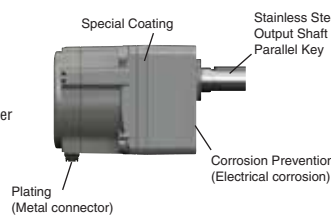
**BLE2 Series**  
0-10 VDC  
External Control

**BMU Series**  
Simple Control

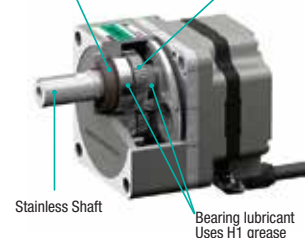
### Connector Structure



### Casing Structure and Seal



Oil seal lubricant Uses H1 grease  
Gear lubricant Uses H1 grease





# CVK-SC Stepper Motor & Driver Speed Control System

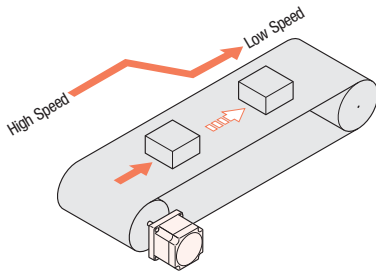
- No pulse generator needed
- 2 speed settings possible
- Compact and higher torque motor
- Improved stop position repeatability
- Maintains torque, even when stopped



The simple motor and driver configuration makes speed control possible. Control is easy. Select 2 speeds, and turn the start input ON or OFF.

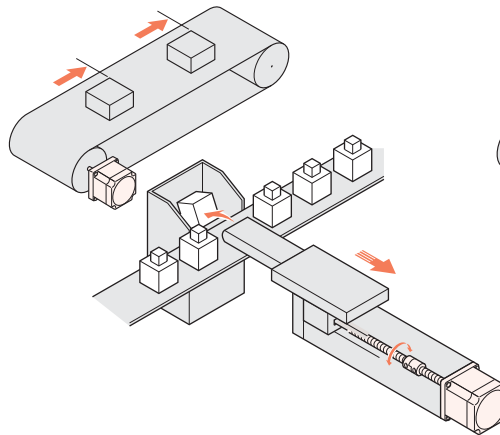
## ● Speed Selection

2-speed selection operation



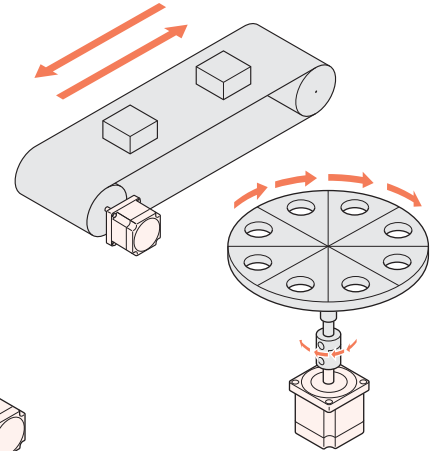
## ● Return Operation

Turn the CW/ CCW input ON or OFF



## ● Regular Feed Operation

Turn the forward input ON or OFF



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