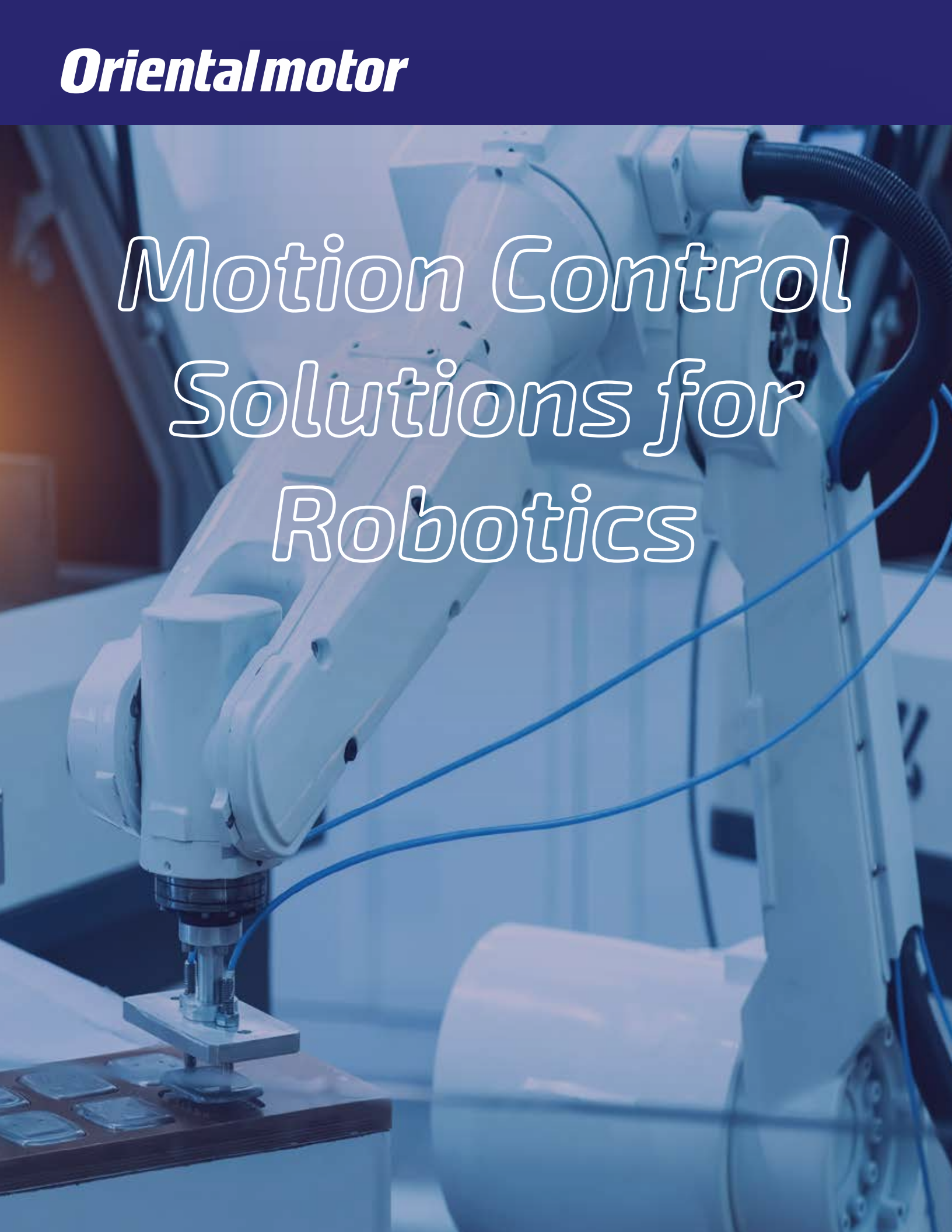


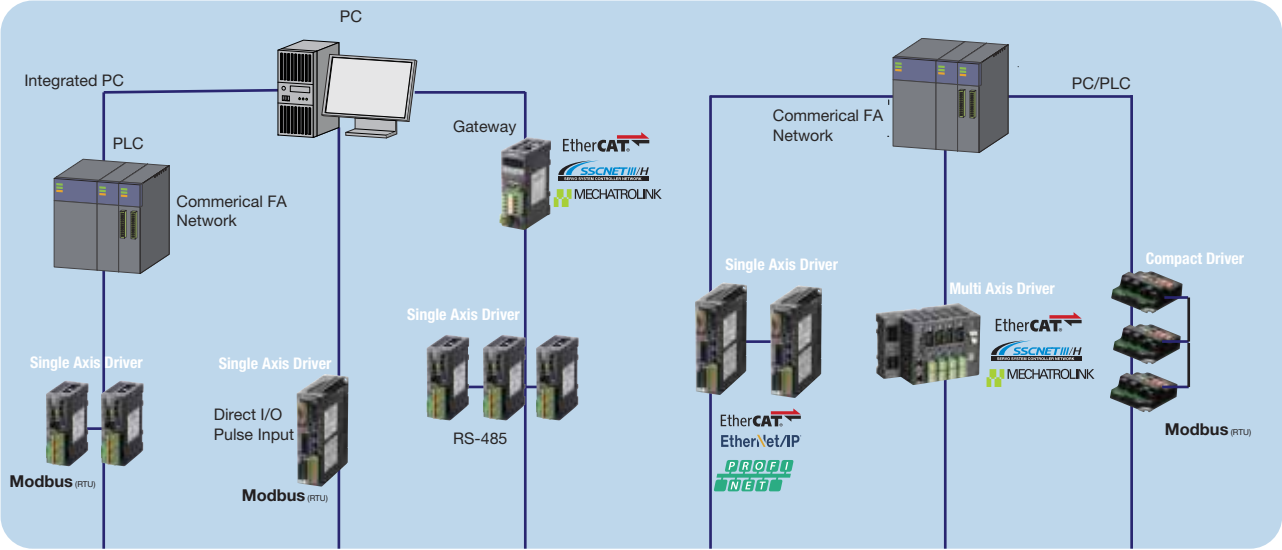
Orientalmotor

Motion Control Solutions for Robotics

A close-up photograph of a white industrial robotic arm in a factory setting. The arm is positioned over a worktable with several small components. Blue cables are connected to the arm. The background is slightly blurred, showing other parts of the machinery. The entire image has a blue color overlay.

Select Your Motor and Communication Control Systems

Network Communication



Motor

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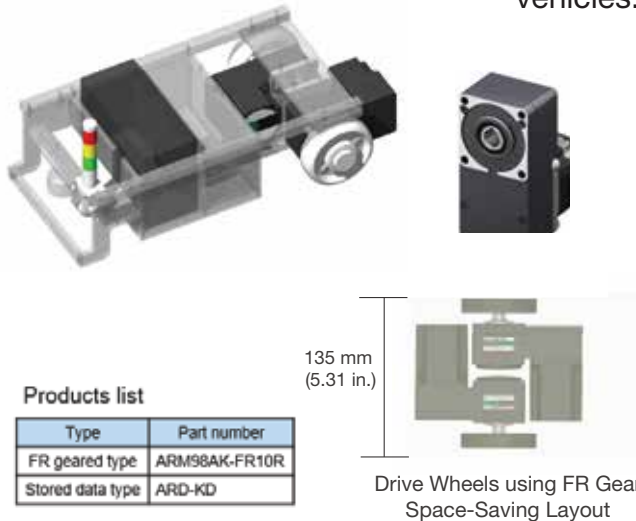
Application

 <p>AGV/ AMR</p>	 <p>Conveyor</p>	 <p>X-Y-Z Gantry</p>	 <p>Robot Motors</p>	 <p>Changing Loads</p>	 <p>Robot Drivers</p>
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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.



Products list

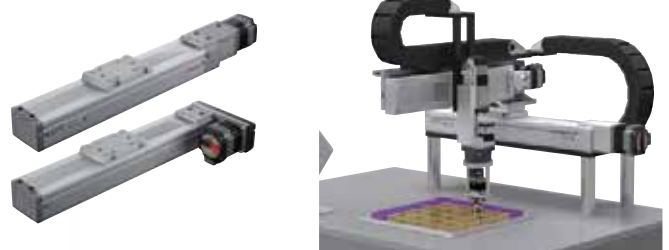
Type	Part number
FR geared type	ARM98AK-FR10R
Stored data type	ARD-KD

135 mm
(5.31 in.)

Drive Wheels using FR Gear
Space-Saving Layout

Oriental Motor offer several types of electric linear actuators, slides, cylinders, rotary actuators, and grippers for a wide range of motion requirements.

X-Y-Z Gantry System



Products list

Type	Part number
Slide	EZS6-D030-AZAKD
Slide	EZS4-D025-AZAKD

Absolute Encoder,
Sensorless Homing

Arm Robot

This 7-axis arm robot consists of 7 AZ Series products. The benefit of the AZ Series with its mechanical absolute sensor is the drivers can remember the positions when the main power is off.

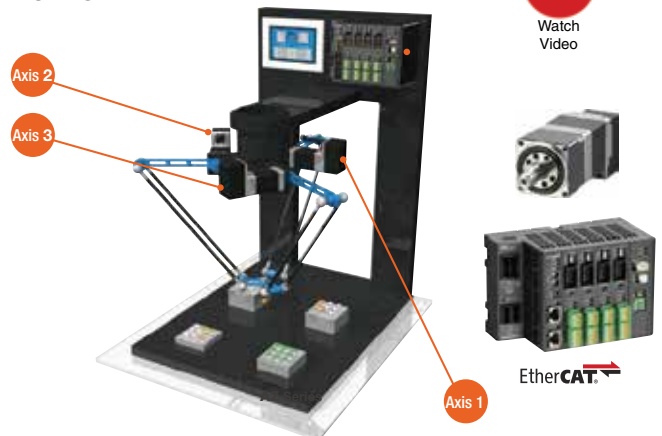


Products list

Type	Part number
Rotary actuator	DGM130R-AZAK
Harmonic geared type	AZM46MK-HS100
Harmonic geared type	AZM46MK-HS100
Harmonic geared type	AZM24AK-HS100
Harmonic geared type	AZM24AK-HS50
Gripper	EH4-AZAKH
Compact driver	AZD-KRD

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

Parallel Link Robot



Products list

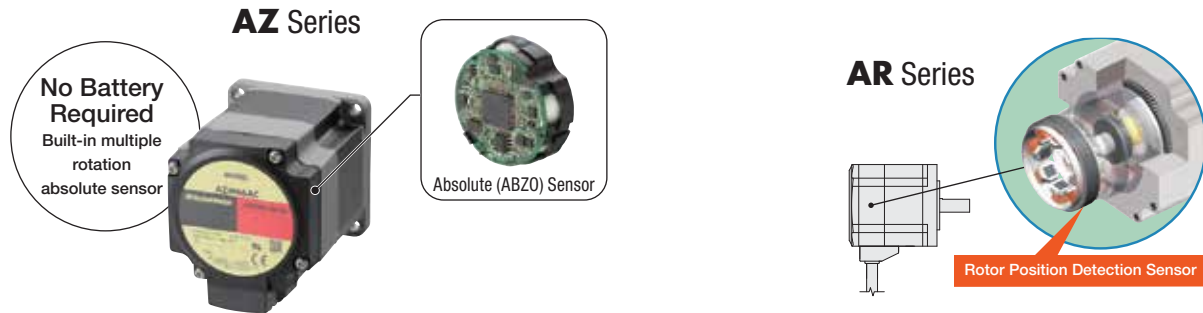
Type	Part number
Harmonic geared type	AZM24AK-HS50
Multi axis driver (EtherCAT)	AZD3A-KED

EtherCAT

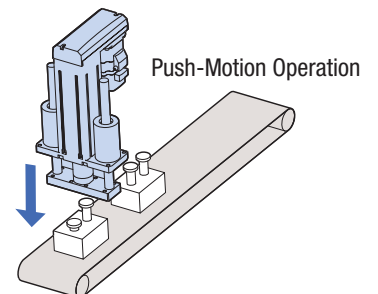
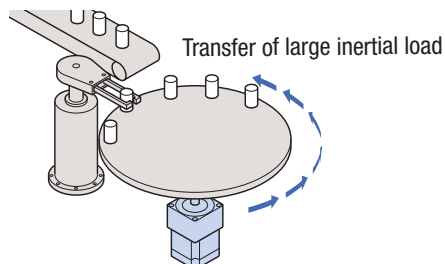
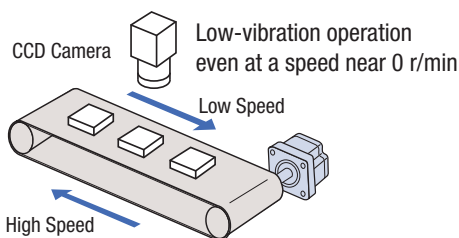
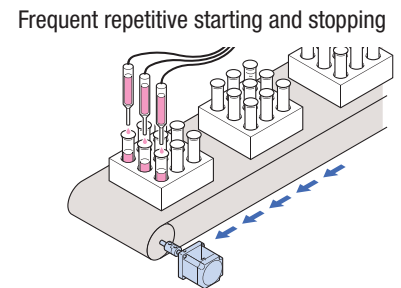
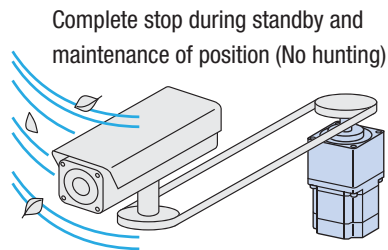
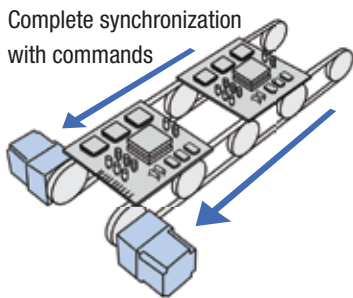
α STEP Technology

α STEP (AZ and AR Series) is a “hybrid” stepper motor-based motor & driver system that together combines the advantages of “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.

There are two base motor / driver types within the α STEP family of products. The **AZ** Series features an absolute sensor and the **AR** Series features a resolver based sensor.

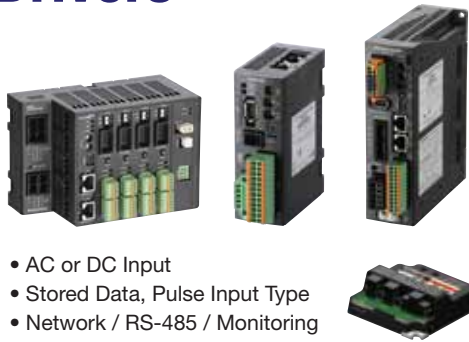


Ideal Applications for α STEP



Family of Products

Drivers



- AC or DC Input
- Stored Data, Pulse Input Type
- Network / RS-485 / Monitoring
- No Additional Sensors Required

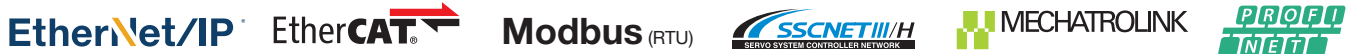
Home Setting Method

The home position can be easily set by pressing a switch on the drivers surface, which is saved by the Mechanical Absolute Encoder. In addition, home setting is possible with the **MEXE02** support software or external input signal.

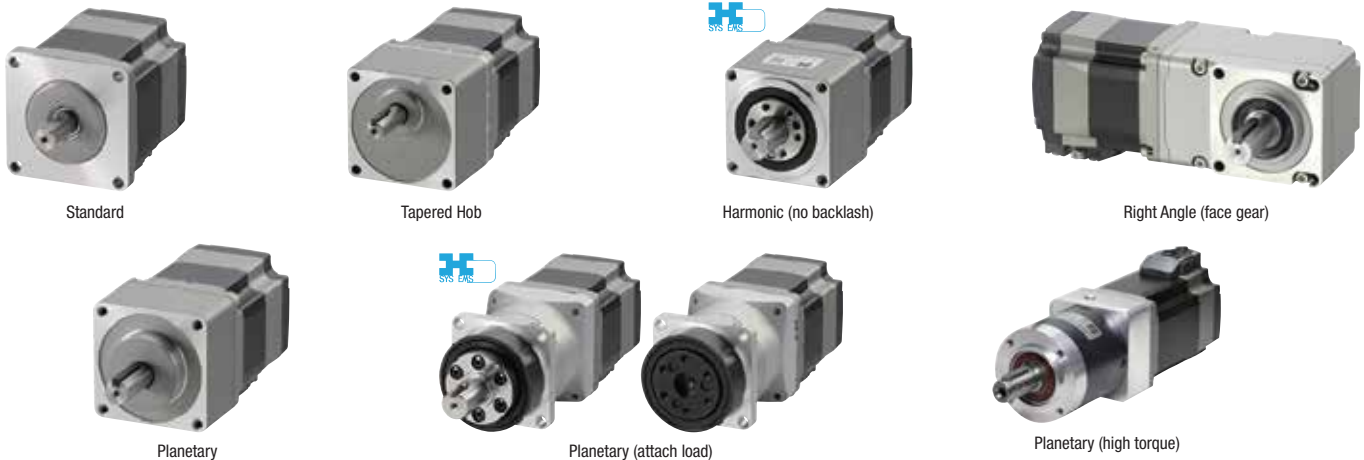
Home position is easy to adjust by moving the motor to a desired position manually.



HOME PRESET Switch



Motor/ Geared Types



Standard

Tapered Hob

Harmonic (no backlash)

Right Angle (face gear)

Planetary

Planetary (attach load)

Planetary (high torque)

Actuator Types



Linear Slides

Linear Cylinders

Rotary Actuators

Rack & Pinion

Compact Electric Cylinder

Gripper

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MEXE02: A Tool to Make All Data Setting Easy

● Support Software **MEXE02** (Free Download)

Fundamental settings, such as editing operation data and parameter settings, can be performed easily from a computer.

Sequence control is possible, which allows for easy system configuration without a host sequence.

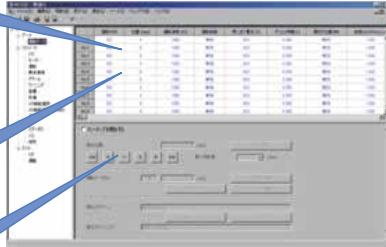
Easy to use, even for people with no electrical design experience



This is a function that allows the traveling amount, speed, etc. to be displayed and input in the designated units

Simplified program with simple sequence function

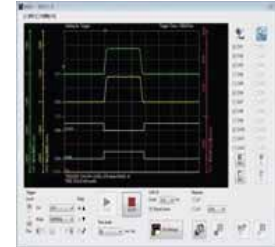
Settings can be copied and backed up



Easy to understand and easy to use
Intuitive usability



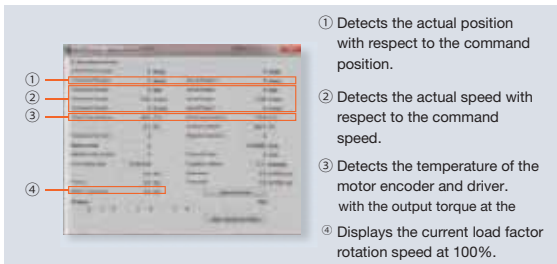
Teaching can be performed from a PC



Built-in waveform monitor that can check signal input status

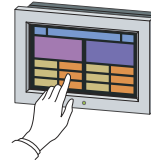
● Status Monitoring/ Preventative Maintenance

Besides operating speed, motor and driver temperature, load factor, and cumulative rotations, etc., status can also be monitored from the start of use. The desired signals can be output for these items, allowing for efficient maintenance.



● Touch Screen (Commercially Available)

Used with stored data drivers, operating data can be directly overwritten from the touch screen, normally used for monitoring. This is useful for monitoring operation status and when settings must be changed due to set-up changes.



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