

Orientalmotor

Stepper Motor

PKP Series

Additions to the Product Line

Flat Type with Encoder

Frame Size 42 mm

Frame Size 60 mm



2-Phase PKP Series with PLE Gearhead

- High Torque Combination Bipolar 2-phase Stepper Motors with Neugart Planetary Gearheads
- Motor and Gearhead are Pre-assembled

For detailed information please refer to the **PKP Series** catalogue on our website.









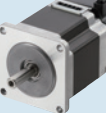













2-Phase

Stepper Motors PKP Series

High Torque

Low Vibration

- Bipolar (4 lead wires) and unipolar (5 or 6 lead wires) wiring types are available.

Motor Type	Motor Frame Size	Additional Function		
		Standard	With Encoder	With Electromagnetic Brake
Standard Type (Basic Step Angle: 1.8°/step)        <Flat Connector Type> <Connector Type> With Encoder*2 With Electromagnetic Brake Standard	<input type="checkbox"/> 13 mm	COMING SOON	—	—
	<input type="checkbox"/> 20 mm	●	●	—
	<input type="checkbox"/> 28 mm	●	●	●
	<input type="checkbox"/> 35 mm	●	●	●
	<input type="checkbox"/> 42 mm	●	●	●
	<input type="checkbox"/> 56.4 mm	●	●	●
	<input type="checkbox"/> 60 mm*1	●	—	—
	<input type="checkbox"/> 85 mm	●	—	—
High-Resolution Type (Basic Step Angle: 0.9°/step)        <Flat Connector Type> <Connector Type> With Encoder*2 With Electromagnetic Brake Standard	<input type="checkbox"/> 28 mm	●	●	—
	<input type="checkbox"/> 42 mm	●	●	●
	<input type="checkbox"/> 56.4 mm	●	●	●
Flat Type (Basic Step Angle: 0.018° to 1.8°/step)    Standard With Encoder*4 With Harmonic Gears	<input type="checkbox"/> 42 mm	●	●	—
	<input type="checkbox"/> 60 mm	●	●	—
	<input type="checkbox"/> 51 mm*3	●	●	—
	<input type="checkbox"/> 61 mm*3	●	●	—
SH Geared Type (Basic Step Angle: 0.05° to 0.5°/step)   Standard With Encoder*2	<input type="checkbox"/> 28 mm	●	●	—
	<input type="checkbox"/> 42 mm	●	●	—
	<input type="checkbox"/> 60 mm	●	●	—
CS Geared Type (Basic Step Angle: 0.09 to 0.36°/step)  Standard	<input type="checkbox"/> 28 mm	●	—	—
	<input type="checkbox"/> 42 mm	●	—	—
	<input type="checkbox"/> 60 mm	●	—	—

●: 2 types are available—the "Flat Connector Type" and the "Connector Type".

*1 This is the conventional **PK** Series.

*2 For resolutions between 100 and 4,000 P/R, please contact your nearest Oriental Motor sales office.

*3 In case of Flat Type with Harmonic Gears

*4 Resolution of 200, 400 and 1,000 P/R are available.



LA - Linear Attachment

- Thrust and self-locking force: Max. 100N
- Can be installed without a coupling, saving space
- Can be attached to □28mm and □42mm motors





● Please check the website for details.

5-Phase

Stepper Motors **PKP** Series

High Accuracy

Low Vibration

Motor Type	Motor Frame Size	Additional Function		
		Standard	With Encoder	With Electromagnetic Brake
Standard Type (Basic Step Angle: 0.72°/step) Flat Connector Reasonable High Strength  <Flat Connector Type>  <Connector Type> Standard With Encoder*2	□ 20 mm*1	●	●	—
	□ 28 mm	●	●	—
	□ 42 mm	●	●	—
	□ 56.4 mm	●	●	—
	□ 60 mm	●	●	—
	□ 85 mm*1	●	—	—
High-Resolution Type (Basic Step Angle: 0.36°/step)  Standard	□ 28 mm	●	●	—
	□ 42 mm	●	●	—
	□ 60 mm	●	●	—
TS Geared Type (Basic Step Angle: 0.024 to 0.2°/step)  Standard	□ 42 mm	●	—	—
	□ 60 mm	●	—	—

●: 2 types are available—the "Flat Connector Type" and the "Connector Type".

*1 This is the conventional **PK** Series.

*2 For resolutions between 100 and 4,000 P/R, please contact your nearest Oriental Motor sales office.

2-Phase






5-Phase

Stepper Motor Driver - **CVD** Series

Small

Low Vibration

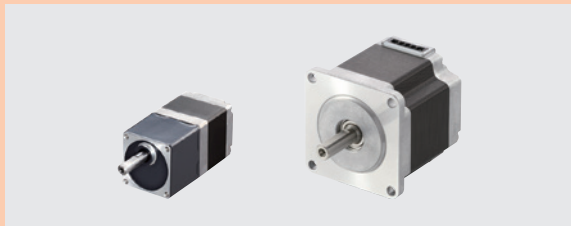
The 2-Phase stepping motors are only bipolar (4 lead wires)

			
Pulse Input Type		RS-485 Communication Type	
			
S Type: Board-mounted Type Pulse Input / SPI Communication <ul style="list-style-type: none">• Detection of loss of synchronisation by encoder information capture• Detection of wire breakage possible		Fully Closed Loop Control Type <ul style="list-style-type: none">• Full closed control of 5-phase stepping motors• Sub-micron high-precision positioning• Can be operated via Modbus RTU (RS-485 communication)	
			
		Multi-Axis Type - EtherCAT Compatible <ul style="list-style-type: none">• Control up to 4-axis• Compatible with 2-phase and 5-phase motors with the same driver• Detection of loss of synchronisation by capturing encoder information• Automatic electromagnetic brake control	

2-Phase Stepper Motors

PKP Series

● For detailed information about regulations and standards, please see the Oriental Motor website.



Introducing our Video Library

Videos presenting the features, operations, and methods of use, etc. of the **PKP** Series are available on the Oriental Motor website.

These products are high-torque 2-phase stepper motors. A wide variety of products are available to meet your design specifications.

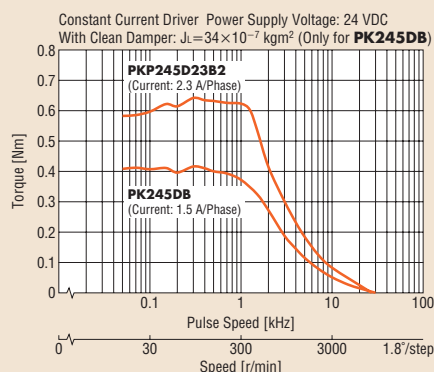
- Motor Frame Size 13 mm to 85 mm
- Standard Type with a Resolution of 200 Steps per Revolution (Basic step angle: 1.8°/step)
- High-Resolution Type with a Resolution of 400 Steps per Revolution (Basic step angle: 0.9°/step)
- Oriental Motor's Flat Type 2-phase Stepper Motor
- High-Torque and High-Resolution **SH** Geared Type
- Bipolar (4 lead wires) and Unipolar (5 or 6 lead wires) are Available
- Encoder Type and Electromagnetic Brake Type are Available
- Many Motor Current Specifications Available

Features

Increased Torque over the Entire Speed Range from Low to High

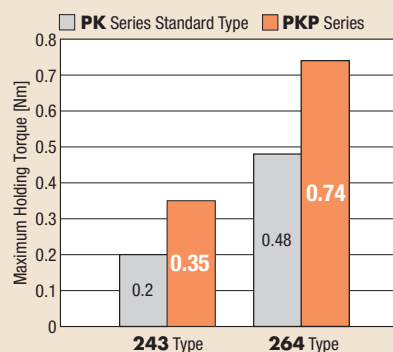
After revising the magnetic design and structure design of the **PKP** Series, it produces much more torque than standard **PK** Series motors of the same size. In addition, torque can be increased in the high-speed range by using high current motors.

Comparison of Speed – Torque Characteristics of the Same Size Motors



High current is possible due to the revised motor winding design and the highly efficient design of the drive circuit that can be combined. Increased torque over the entire speed range from low to high is achieved.

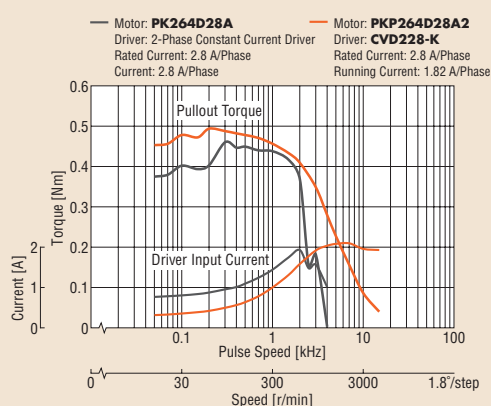
Comparison of Maximum Holding Torque



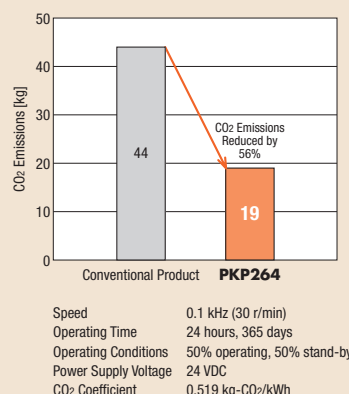
Conservation of Energy and Electrical Power

Reducing the running current supplied to **PKP** Motors achieves the same torque as conventional products while reducing power consumption and CO₂ emissions.

Reduced Running Current with the PKP Series



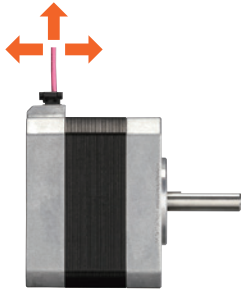
Power Consumption and CO₂ Emissions 56% Lower than Conventional Products



Compact and Flat Connector

The **PKP** Series uses a compact flat connector, which shortens the length of the connector's overhang. In addition, the degree of freedom for the cable outlet direction has been increased because the outlet direction points upward.

● Since the connector is provided for select products only, please refer to the dimensions of each model for details.

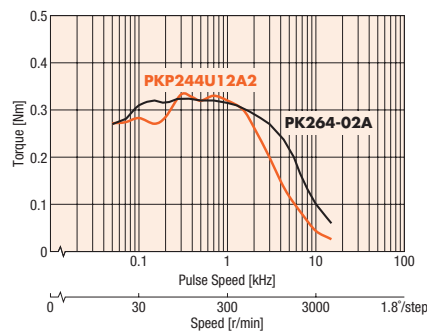


Saving Resources through Downsizing

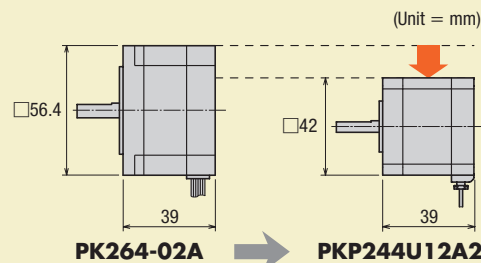
Use a **PKP** Series motor in place of a standard motor from the **PK** Series with the equivalent torque in order to downsize motors.

Volume reduced by 44%

Comparison of Torque Characteristics of
PKP244U12A2 and **PK264-02A**





Downsizing is Possible with the Same Torque!



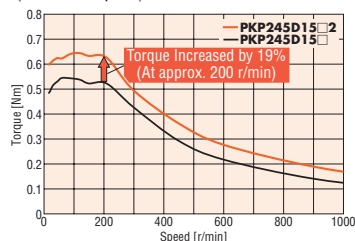
Select Motors by Price, Specifications and Characteristics

The Flat Connector Type and Connector Type are available in some Standard Type and High-Resolution Type product lines. You can choose according to price and your desired specifications and characteristics.

● Comparison of the Flat Connector Type and the Connector Type For 2-Phase Stepper Motors

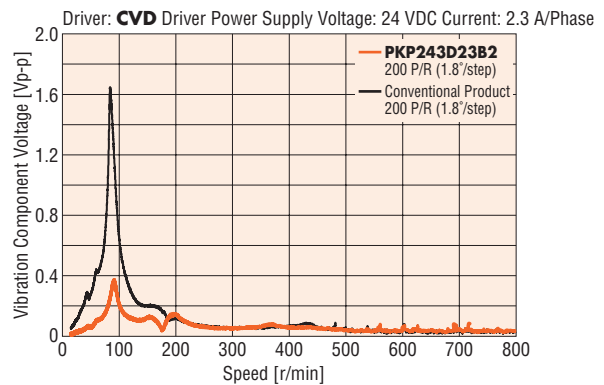
Type	Flat Connector Type	Connector Type
Prices		
Features	<ul style="list-style-type: none">• Using a compact flat connector that shortens the length of the connector's overhang• High permissible radial load / permissible axial load• High torque (excluding some types)	Standard Performance
Permissible Radial Load (Max. value)	<div><input type="checkbox"/>42 mm</div> <div><input type="checkbox"/>56.4 mm</div>	<div>85 N</div> <div>63% Increase</div> <div>52 N</div>
Permissible Axial Load	<div><input type="checkbox"/>42 mm</div> <div><input type="checkbox"/>56.4 mm</div>	<div>15 N</div> <div>50% Increase</div> <div>10 N</div>
		<div>270 N</div> <div>68% Increase</div> <div>160 N</div>
		<div>30 N</div> <div></div> <div>20 N</div>

◆ Example of comparison of Torque characteristics with the same size motor (□42 mm bipolar)



Lower Vibration

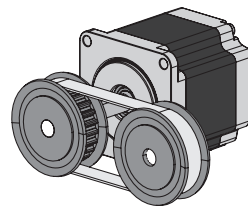
Revising the magnetic design has achieved lower vibration than with conventional products.



● Permissible Radial Load Increased

By increasing the permissible radial load, the Flat Connector Type make assembling equipment easier.

◇ Applications
Belt and Pulley Mechanism



◇ Advantages

- The components for supporting the radial load on the shaft are no longer needed, making it easier to reduce the size of the equipment.
- It is easy to adjust belt tension to obtain a higher safety factor in the tension of the belt.

● Increased Torque

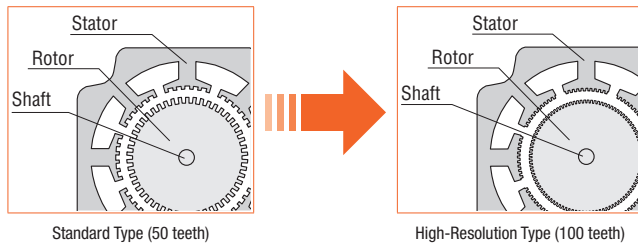
The torque characteristics of the Flat Connector Type is equal to or higher than those of the Connector Type (excluding some types). Reduced positioning time is achieved by increasing torque.

High-Resolution Type

This is a high-resolution stepper motor with a basic step angle of 0.9° . Stopping accuracy is improved.

Increased Resolution (Compared to standard type)

The number of rotor teeth has doubled to 100, compared to 50 with the standard type. As a result, the basic step angle is $0.9^\circ/\text{step}$, which is half than the standard type.

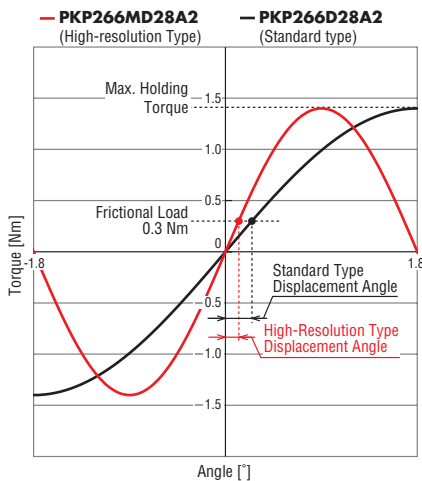


Improved Stopping Accuracy

Compared with the standard type (basic step angle 1.8°), the displacement angle of the motor is smaller when friction load is applied to the motor shaft.

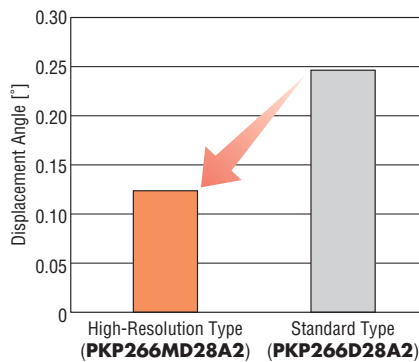
The stopping accuracy in applications that constantly apply a frictional load, such as a ball screw mechanism, is therefore improved.

Comparison of Angles and Torque Characteristics* (Reference value)



*For frictional load 0.3 Nm

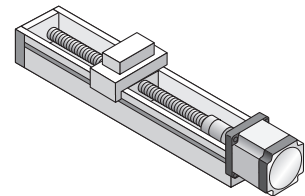
Comparison of Displacement Angles by Frictional Load* (Reference value)



*For frictional load 0.3 Nm

Example of Mechanism where a Constant Frictional Load is Applied

For example, in a ball screw mechanism, as the one shown in the figure, a frictional load is constantly applied to the motor by the guide block and guide rail, etc.

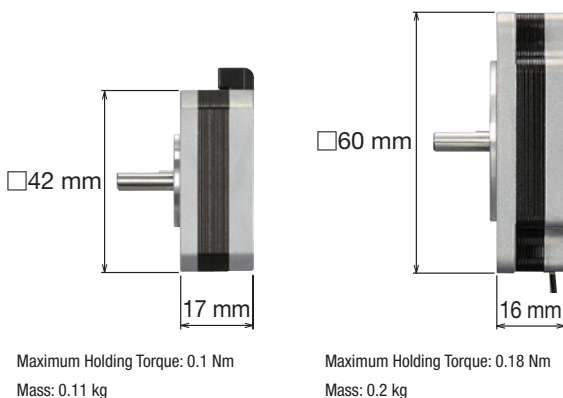


Flat Type

This is Oriental Motor's flattest type of 2-phase stepper motors.

Flat and Lightweight Design

The motor can be installed in a narrow space.



With Harmonic Gears

Attach the load to the surface of the flange to fix the load.

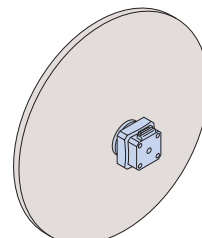
Example: Frame Size 51 mm



Gear Ratio 100
Maximum Holding Torque: 2.4 Nm
Mass: 0.32 kg

Makes drives with large inertia possible.

Example: Frame Size 51 mm



Inertia 0.12 kgm^2
(Approximately 7 times the rotor inertia)
Inertial Load: Diameter 0.35 m,
Thickness 0.01 m
Mass 7.6 kg, Material Iron
Motor: Length 17 mm
Gear Ratio 100

Features of Geared Types

Using a geared type motor can provide advantages such as deceleration, high torque, and high resolution.

● Differentiating Features of the CS Geared Type and the SH Geared Type

Type			CS Geared Type	SH Geared Type
Features			<ul style="list-style-type: none"> ● Center Shaft Configuration ● High Torque ● High Permissible Radial Load 	<ul style="list-style-type: none"> ● Wide Variety · 90 mm Frame Size and Unipolar Wiring · Includes Encoder · Many Gear Ratio Types
Frame Size	28 mm	Maximum Holding Torque [Nm]	0.4 - 0.8	0.3, 0.4
		Speed Range (Max. value) [r/min]	300 - 600	83 - 416
		Permissible Radial Load (Max. value) [N]	73	23
	42 mm	Maximum Holding Torque [Nm]	0.5 - 2	0.2 - 0.8
		Speed Range (Max. value) [r/min]	150 - 600	83 - 833
		Permissible Radial Load (Max. value) [N]	96	30
	60 mm	Maximum Holding Torque [Nm]	1.3 - 4.5	1 - 4
		Speed Range (Max. value) [r/min]	150 - 600	83 - 833
		Permissible Radial Load (Max. value) [N]	260	160

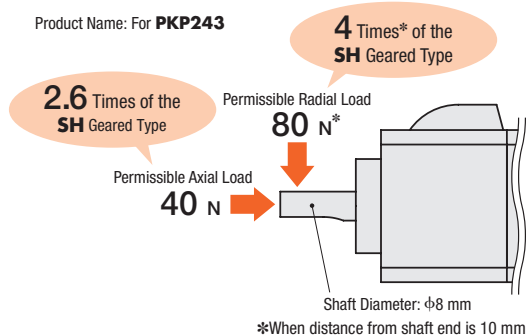
CS Geared Type

The geared type with center shaft addresses torque, shaft load capacity and installation demands.

● Increased shaft load capacity reduces assembly time

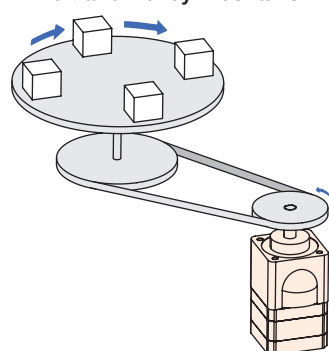
Increased permissible radial load and permissible axial load can reduce assembly time.

◇ Permissible Radial Load and Permissible Axial Load



◇ Applications

Belt and Pulley Mechanism



◇ Advantages

- Reduce adjustments during assembly because belt tension can be higher than with conventional products
- The components for supporting the radial load on the shaft are no longer needed
- The degree of freedom in pulley selection is increased

● Achieves Increased Torque with the Same Motor Frame Size

Switching to a geared type motor increases torque without changing the motor frame size.

This is effective when installation is not possible because the motor installation space is limited.



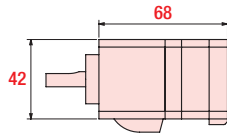
Standard Type	Motor Type	CS Geared Type
PKP243D15A2	Product Name	PKP243D15A2-CS20
0.35 Nm	Max. Holding Torque	2 Nm

● Increased Torque Contributes to Reduced Size and Weight of the Motor

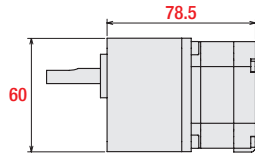
High torque, shorter motor length and a frame size that's one size smaller.

◇ Dimensions: (Unit = mm)

CS Geared Type (PKP243D15A2-CS20)

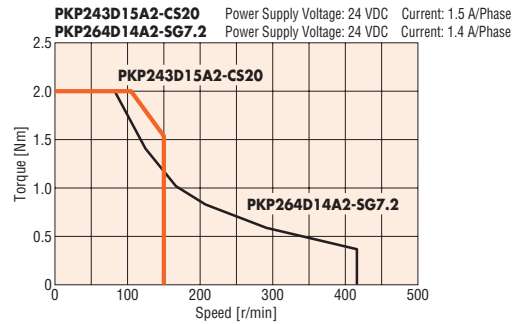


SH Geared Type (PKP264D14A2-SG7.2)



Maximum Holding Torque: Same
Frame Size: **Reduced by 18 mm**
Motor Length: **Reduced by 10.5 mm**
Mass: **Reduced by 47 %**

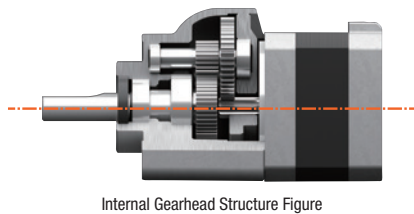
◇ Torque Characteristics Comparison



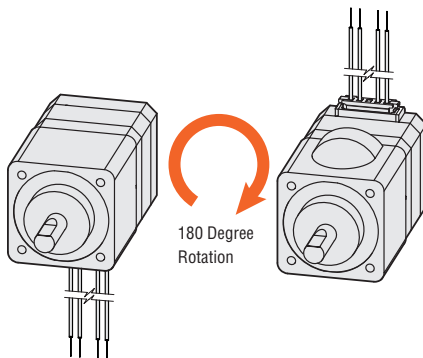
● Center Shaft Makes Designing Easier

A review of the gear structure has led to the center shaft design. It is easier to design the installation plate. In addition, the degree of freedom for the cable outlet direction has been increased.

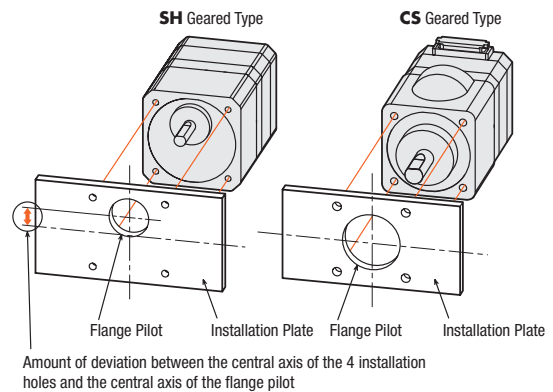
● Output Shaft now Placed in Center



● Increased Degree of Freedom for Cable Outlet Direction



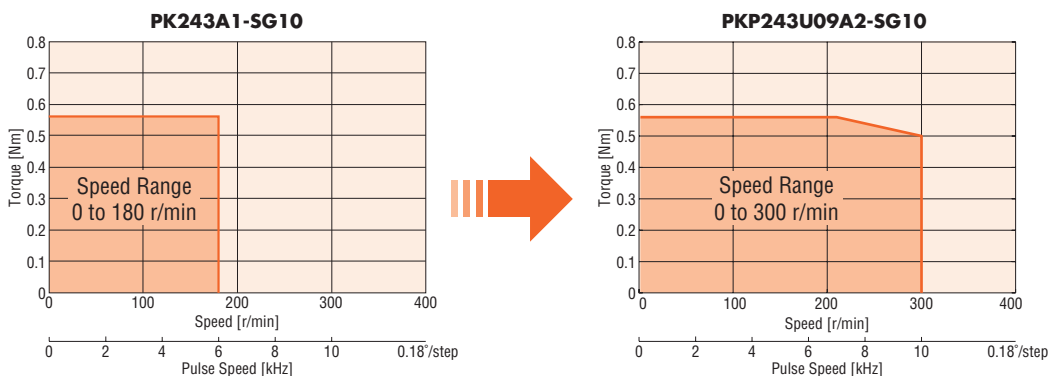
● Installation Plate Designing Made Easier



SH Geared Type

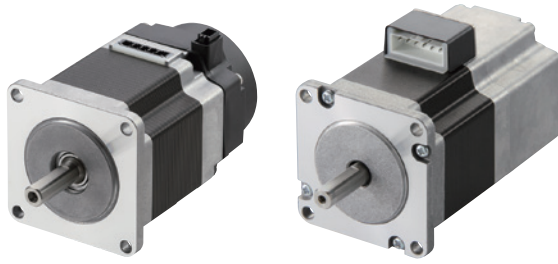
This type is well-suited for deceleration, increased torque, high resolution, and limited vibration. It experiences less backlash than conventional products.

● Wider Speed Range makes it Easier to Use than Conventional Products



● With Electromagnetic Brake

(Provided for standard type and high-resolution type)



◇ Position Can Be Held When the Power Is OFF or a Power Failure Occurs.

This type features an electromagnetic brake that activates when the power is off.

When the power is accidentally cut off due to a power failure or other unexpected event, the electromagnetic brake holds the load in position to prevent it from dropping or moving. Also, the load can be held by the electromagnetic brake when the motor is stopped, and the heat generated by the motor can be curtailed by switching the motor current off.

Compatible Drivers (Sold Separately)

These are compact and lightweight bipolar drivers.

● Bipolar Driver **CVD Series**

The **CVD** Series offers the pulse input type and the RS-485 communication type drivers.

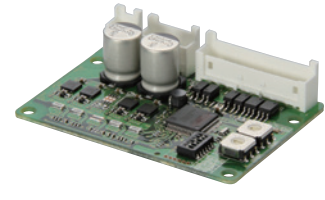
- Right Angle Type with Installation Plate
The connector points outward.



- With Installation Plate
The connector points upward.



- Without Installation Plate*
The connector points upward.

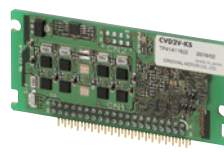


*Pulse input type only

● Bipolar Driver **CVD Series S Type**



• SPI Communication-Compatible








• Pulse Input-Compatible

● Multi-Axis Type - EtherCAT Compatible



Product Line

Motor Product Line (Basic Step Angle)		Frame Size, Wiring Type															
		13 mm		20 mm		28 mm		35 mm		42 mm		56.4 mm		60 mm		85 mm	
		Bipolar	Unipolar	Bipolar	Unipolar	Bipolar	Unipolar	Bipolar	Unipolar	Bipolar	Unipolar	Bipolar	Unipolar	Bipolar	Unipolar	Bipolar	Unipolar
Standard Type (1.8°) 		●	—	○	○	●	●	●	●	●	●	●	●	○*3	○*3	○	○
	With Encoder*4	—	—	○	—	●	—	●	—	●	—	●	—	—	—	—	—
	With Electromagnetic Brake	—	—	—	—	●	●	●	●	●	●	●	●	—	—	—	—
High-Resolution Type (0.9°) 		—	—	—	—	●	●	—	—	●	●	●	●	—	—	—	—
	With Encoder*4	—	—	—	—	●	—	—	—	●	—	●	—	—	—	—	—
	With Electromagnetic Brake	—	—	—	—	—	—	—	—	●	●	●	●	—	—	—	—
Flat Type (0.018° - 1.8°) 		—	—	—	—	—	—	—	—	●	—	—	—	○	—	—	—
	With Harmonic Gears	—	—	—	—	—	—	—	—	●*1	—	—	—	○*2	—	—	—
SH Geared Type (0.05° - 0.5°) 		—	—	—	—	●	●	—	—	●	●	—	—	●	●	—	—
CS Geared Type (0.09° - 0.36°) 		—	—	—	—	●	●	—	—	●	—	—	—	●	—	—	—

●: Connector Connection Method ○: Lead Wire Type

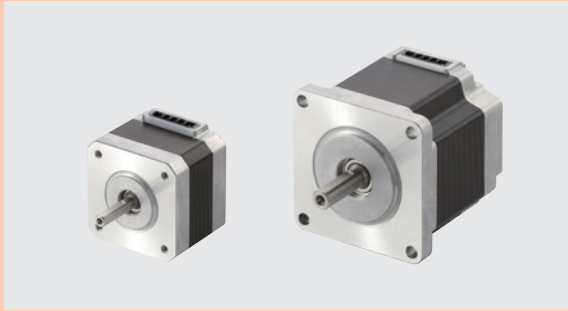
*1 Flat Type - 51 mm with Harmonic Gears.

*2 Flat Type - 61 mm with Harmonic Gears.

*3 This is the conventional **PK** Series.

*4 For resolutions between 100 and 4,000 P/R, please contact your nearest Oriental Motor sales office.

5-Phase Stepper Motors PKP Series



This is a high torque and low vibration stepper motor with a basic step angle of 0.72° (resolution of 500 steps per revolution).

High Positioning accuracy is possible, as well as low vibration and reduced noise.

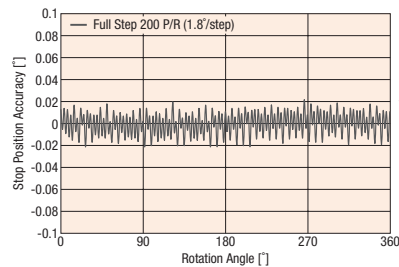
(A separate dedicated driver is required to operate each motor.)

Features

High Accuracy

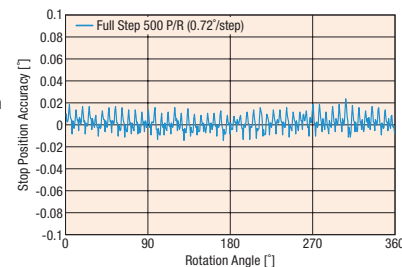
Since the step angle of 5-Phase Stepper Motors in the **PKP Series** is at 0.72° (high-resolution type at 0.36°) and the stopping accuracy is at $\pm 0.05^\circ$, highly accurate positioning is possible. In addition, the stop position accuracy controlled by a microstep driver has almost the same high accuracy as that controlled by a full-step driver.

Conventional 2-Phase Motor

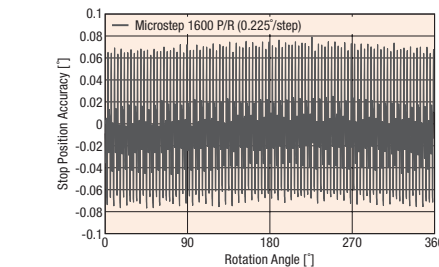


Stopping accuracy gets worse with Microstep

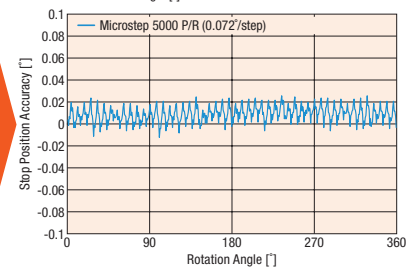
5-Phase **PKP Series** (Driver: 5-phase **CVD** driver)



Stopping accuracy does not get worse with Microstep



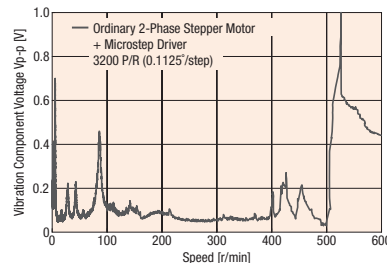
PKP Series
Highly accurate positioning for 5-phase is possible



Low Vibration and Reduced Noise

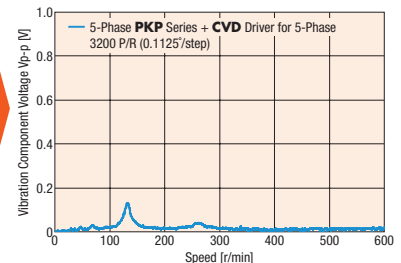
Because the basic step angle is small at 0.72° (0.36° for high-resolution type), the vibrations and noise are lower than the 2-phase stepper motor with a basic step angle of 1.8° . Also, vibrations and noise can be further reduced with a microstep driver.

Example of 2-Phase Stepper Motor Vibration Characteristics



PKP Series
Vibration characteristics for 5-phase are further improved

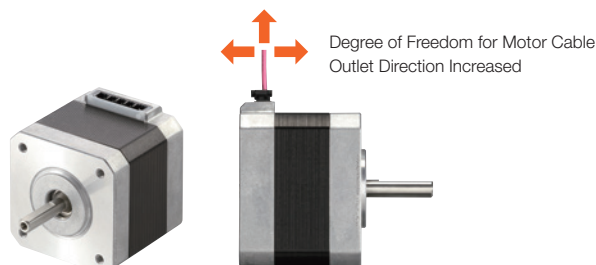
Example of 5-Phase Stepper Motor Vibration Characteristics



Lineup of Products Using Compact, Flat Connectors






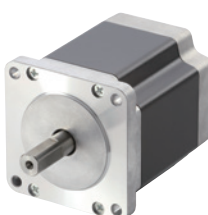













The product line offers products that use compact, flat connectors. The degree of freedom for the motor cable outlet direction has been increased, because the outlet direction points upward.

The connector configuration depends on the motor. Check the details in the motor dimensions.



Product Line

—: Not Offered in This Product Line

Type (Basic Step Angle)	Features	Frame Size					
		20 mm	28 mm	42 mm	56.4 mm	60 mm	85 mm
Standard Type (0.72°)	<ul style="list-style-type: none"> Standard model High torque, low vibration 	 *1					 *1 Lead Wire Type
High-Resolution Type (0.36°)	<ul style="list-style-type: none"> Resolution double that of standard type Results in high positioning accuracy and reduced vibration 	—			—		—
Standard Type with Encoder*4 (0.72°)	<ul style="list-style-type: none"> Encoder resolution 500 P/R, A, B, Z (3 ch) signal output Uses compact encoder Angular Accuracy $\pm 0.36^\circ$*3 Capable of Highly Repeatable Return-to-Home 	 *1		 *2		 *2	—
High-Resolution Type with Encoder*4 (0.36°)	<ul style="list-style-type: none"> Encoder resolution 1000 P/R, A, B, Z (3 ch) signal output Uses compact encoder Angular Accuracy $\pm 0.36^\circ$*3 Capable of Highly Repeatable Return-to-Home 	—			—		—
TS Geared Type (0.024° - 0.2°)	<ul style="list-style-type: none"> Spur gear mechanism A wide variety of low gear ratios, high-speed operations Gear ratio types: 3.6, 7.2, 10, 20, 30 	—	—		—		—

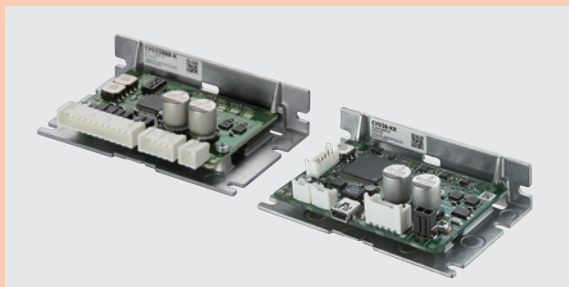
*1 This is the conventional **PK** Series.

*2 With frame sizes of 42 mm and 60 mm, a product line with resolution of 1000 P/R is also available.

*3 Motor output shaft conversion value

*4 For resolutions between 100 and 4,000 P/R, please contact your nearest Oriental Motor sales office.

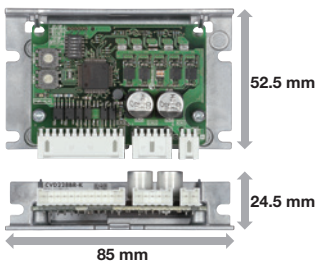
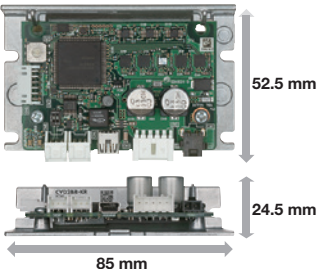
CVD Series Driver for 2-Phase/5-Phase Stepper Motors



These are DC power supply input drivers for stepper motors. 2-phase stepper motors (bipolar drive) and 5-phase stepper motors are available. Using the microstep drive function for a low-vibration driver reduces vibration and noise.

Features and Types

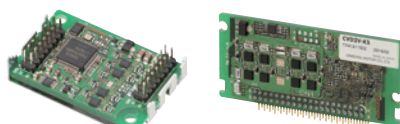
- Bipolar Driver for 2-Phase Stepper Motor
Driver for 5-Phase Stepper Motor
CVD Series

Driver Type	External View	Overview	Driver Installation Direction
● CVD Series Pulse Input Type  <ul style="list-style-type: none"> • Mass 20 g ~ 70 g (The value differs according to the driver type) 	Right Angle with Installation Plate With Installation Plate Without Installation Plate	The connector points outward. The connector points upward. The connector points upward.	<ul style="list-style-type: none"> • Can be controlled depending on the positioning module (pulse generator) • Running current can be easily set with the digital switch.
● CVD Series RS-485 Communication Type  <ul style="list-style-type: none"> • Mass 65 g 	Right Angle with Installation Plate With Installation Plate	The connector points outward. The connector points upward.	<ul style="list-style-type: none"> • Compatible with RS-485 communication (Modbus Protocol) • Easy overwriting of data and multi-axis settings • Reduced wiring of equipment and remote monitoring by host system possible • Compatible with MEXE02 support software

Note

● The driver cannot be shared by both a 2-phase stepper motor and 5-phase stepper motor. Each must use its respective dedicated driver.

- For 2-Phase/5-Phase Stepper Motors
Bipolar Driver **CVD Series S** Type



• SPI Communication-Compatible

• Pulse Input-Compatible

This is a compact board driver. For details, please contact your nearest Oriental Motor sales office.

- For 5-Phase Stepper Motors
Driver **CVD Series SC** Type



This driver can easily control speed by sensing the speed control motor. For details, please contact your nearest Oriental Motor sales office.

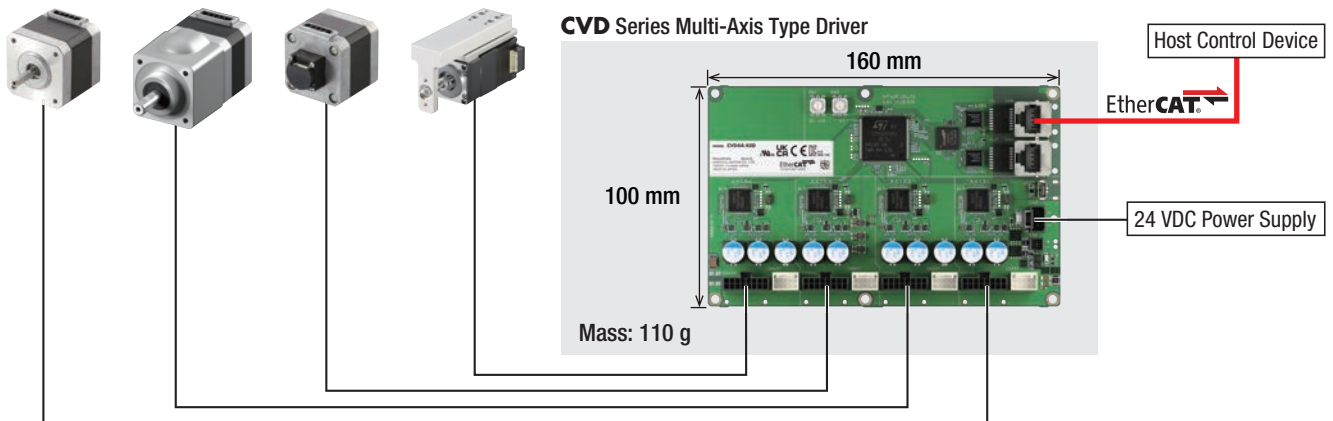
- For 5-Phase Stepper Motors Driver
CVD Fully Closed Loop Control Type



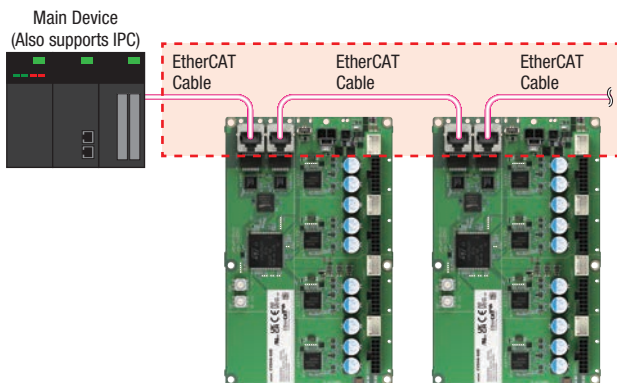
By combining it with an external sensor, you can achieve high-precision positioning operation while maintaining the ease of use of the stepping motor.

● For 2-Phase/5-Phase Stepper Motors EtherCAT Compatible/4-Axis Control Reduces Wiring and Saves Space

- I/O signals are consolidated into a single EtherCAT communication cable. Wiring for communication, power supply, etc. for 4-axis are integrated into a single driver
- Reduces work hours for wiring and decreases problems from mis-wiring
- Integrated management of device information including motor information by using an EtherCAT master



- Daisy-chain connection of multi-axis drivers is possible



- The right-angle connector direction type can be installed with several units placed side by side, eliminating crowded wiring and saving space.



Orientalmotor

These products are manufactured at plants certified with the international standards **ISO 9001** (for quality assurance) and **ISO 14001** for systems of environmental management).

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ORIENTAL MOTOR (EUROPA) GmbH

European Headquarters

Schiesstraße 44
40549 Düsseldorf, Germany
Tel: 0211 5206700 Fax: 0211 52067099

Spanish Office

Ronda de Poniente 2, Ed. 12, 2ª planta
28109 Tres Cantos (Madrid), Spain
Tel: +34 919 61 06 76

ORIENTAL MOTOR (UK) LTD.

UK Headquarters

Unit 5, Faraday Office Park,
Rankine Road, Basingstoke,
Hampshire RG24 8AH, U.K.
Tel: +44 1256 347090 Fax: +44 1256 347099

ORIENTAL MOTOR ITALIA s.r.l.

Italy Headquarters

Via XXV Aprile 5
20016 Pero (MI), Italy
Tel: +39 2 93906346 Fax: +39 2 93906348

Customer Service Center

(Support in German & English)

00800 22 55 66 22 *

Mon - Thu: 08:00 - 16:30 CET
Friday: 08:00 - 15:00 CET

*Free Call Europe

info@orientalmotor.de

