

Orientalmotor

***Motion Control
Solutions for
Medical
Applications***

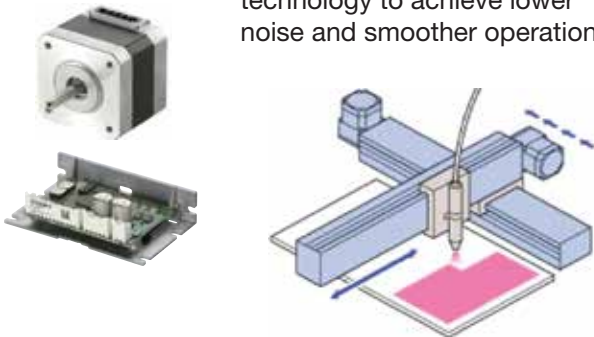
Application Examples

X-Y-Z Gantry System

Belt & pulley or ball screw X-Y gantry systems are positioning applications where stepper motors are used. The PKP Series has beneficial features such as:

- High torque to achieve higher machine throughput
- High permissible radial load to handle tighter belt tension

Our CVD driver has low vibration technology to achieve lower noise and smoother operation.

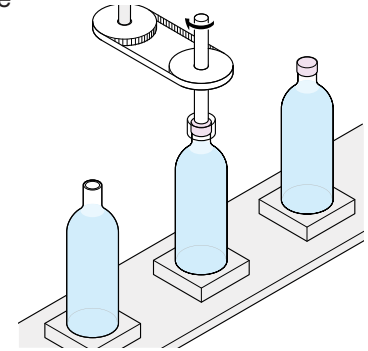


Product	Part Number
PKP Series	PKP244D15A2
CVD Series	CVD215BR-K



Capping applications require a torque control feature, which Oriental Motor's Brushless motor BLH Series has. When a certain torque value is reached, the motor keeps applying the same torque, while outputting a torque limit control signal.

Capping

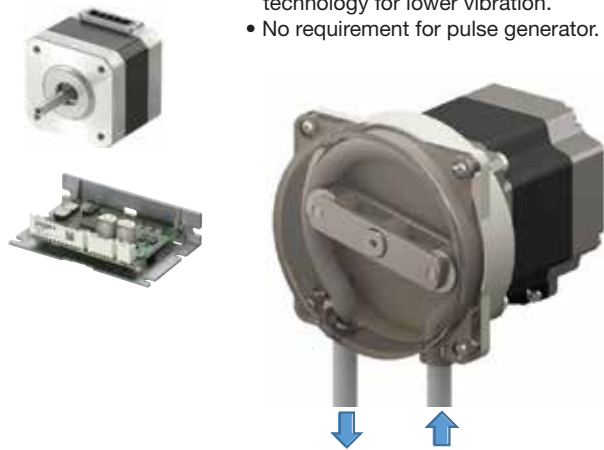


Product	Part Number
BLDC BLH Series	BLHM450KC-A
BLDC BLH Series	BLHM450-KD

Tube Pump

Pump applications require smooth movement and easy speed control. PKP Series with CVD Series SC speed control/ driver type offer features such as:

- Great current control technology for lower vibration.
- No requirement for pulse generator.

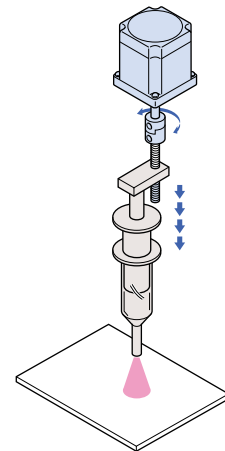


Product	Part Number
PKP Series	PKP566FN24A2
CVD Series SC Type	CVD524BR-KSC



Peristaltic pumps require high stopping accuracy to dispense liquid precisely. The PKP series high resolution type has a higher stopping accuracy than the standard type.

Peristaltic Pump



Vertical Type

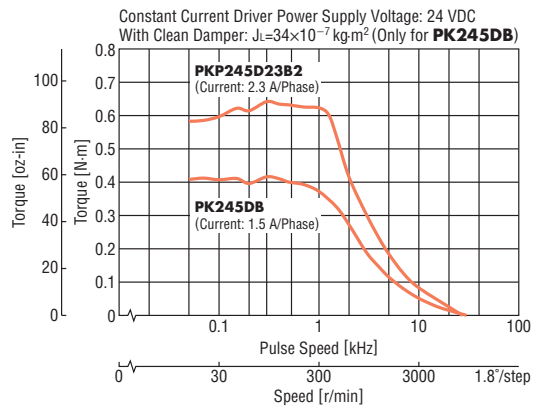


Product	Part Number
PKP Series High Resolution Type	PKP244MD14A2
CVD Series S Type	CVD2V-KS

Advances in Stepper Motor and Driver Technology

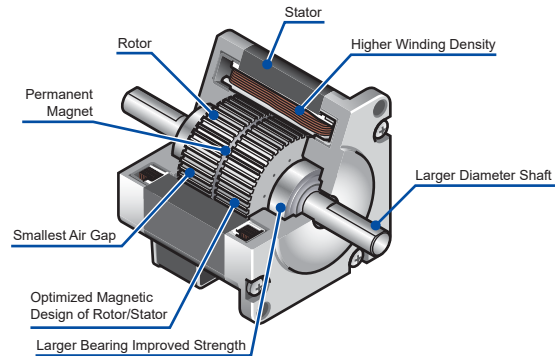
PKP Series Stepper Motor

• Increased Torque

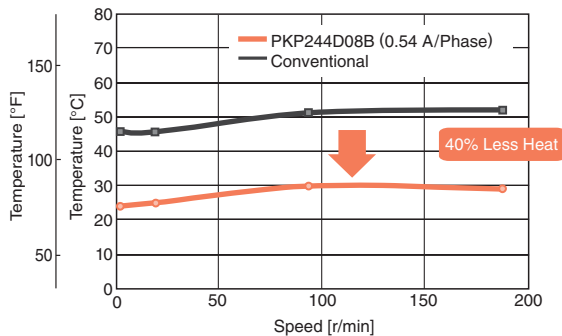


• New Design:

Downsize with More Torque



• Reduced Temperature



• High Permissible Radial Load

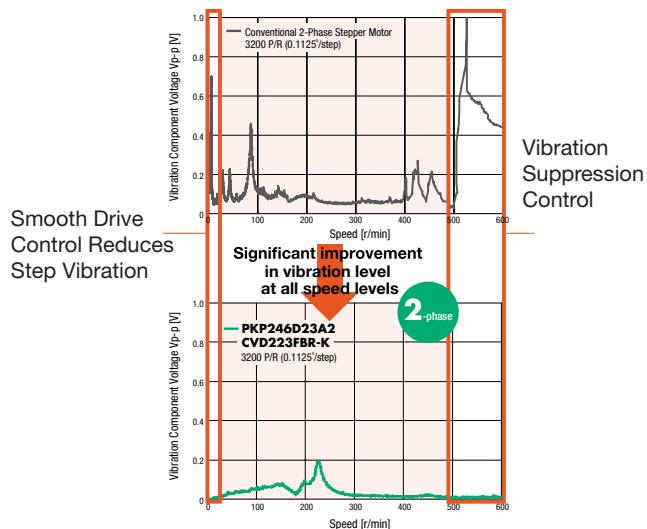
The inner shaft within motor and larger bearing are used.

Motor type	Permissible radial load[N]			
	Distance from the shaft end			
	0mm	5mm	10mm	15mm
PKP Model 42mm(NEMA17)	35	44	58	85
Conventional Model 42mm(NEMA17)	20	25	34	52

70% higher

CVD Series Stepper Motor Driver

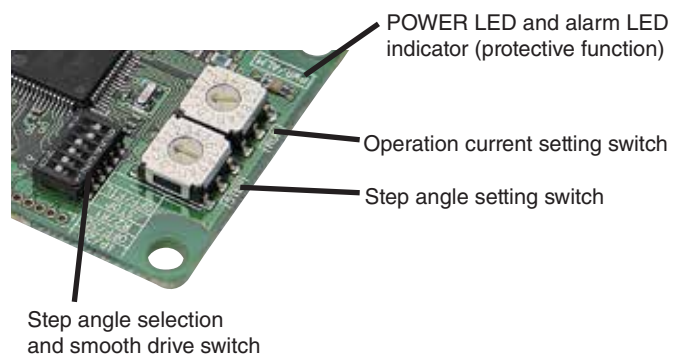
• Reduced Noise and Vibration



• High Performance

Communication Types:

- Pulse Input
- RS 485
- Speed Control (I/O)



Product Line Up

PKP Series



Standard type
Frame size 20mm(NEMA8)-85mm(NEMA34)



High Resolution Type



Flat Type



Flat Type (with Harmonic Gear)



Geared Type



Planetary Gear (Neugart)



Encoder Type



Electromagnetic Brake Type

CVD Series



Board Type



Right Angle Connector



Horizontal Type



Vertical Type



Speed Control Type

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