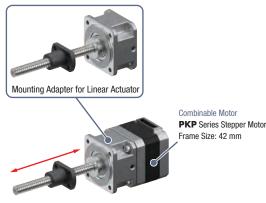
Oriental motor Mounting Adapter for Linear Actuator

Linear motion mechanism with a leadscrew and a resin nut

- Easy installation without the need of coupling to an Oriental Motor stepper motor
- For the 42 mm frame size, thrust and self locking force are both a max. 100 N
- Save space and reduce design time compared to a custom-built mechanism.



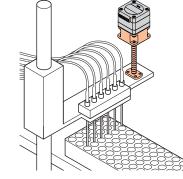
Thrust Force of 100 N for 42 mm



Assembly Example: Mounting Adapter for Linear Actuator + PKP243D23A2

Self-Locking Force 100 N (Lead 2 mm) Capable of Load Holding

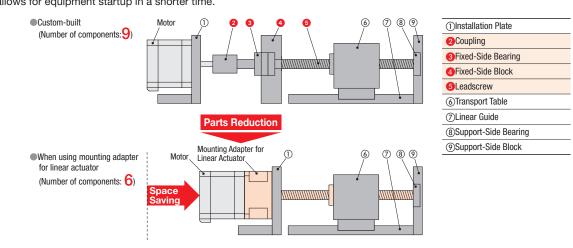
It can be used for load holding applications that require the prevention of movement caused by the load's own weight.



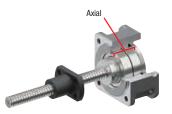
The phenomenon in which a screw shaft becomes immobile due to friction caused by moving the nut externally is called self-locking.

Compact Design Allows for Quicker Equipment Development

By using a mounting adapter for linear actuators, space is saved due to the reduced number of parts. The amount of time required for installation and accuracy adjustment can also be reduced. This allows for equipment startup in a shorter time.



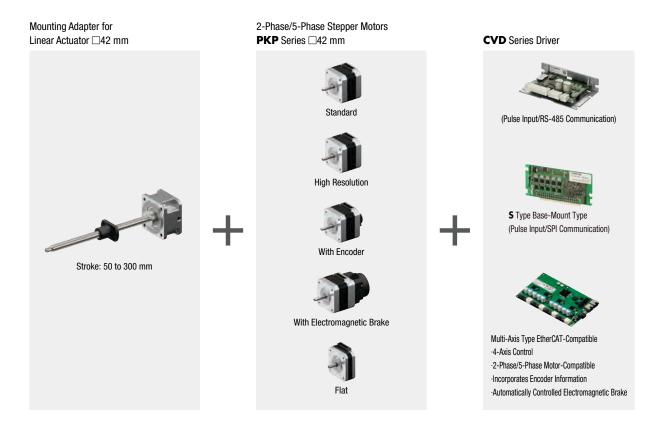
Axial Load Can Be Applied Directly



Wide Variety of Motors and Drivers to Provide More Reliable Motion

Motors with additional functions, such as with encoders and electromagnetic brakes, can be used in combination with drivers that have low vibration and noise.

The low-vibration drive contributes to a reduction in wear of the nuts on the mounting adapter for linear actuators and extends the period of full lubrication.



Product Code

LA 42 12 C 20

1) 2 3	(4) (5)					
1	Name	Mounting Adapter for Linear Actuator					
2	Frame Size	42 : 42 mm					
3	Lead	2 : 2 mm 12 : 12 mm					
4	Driving Screw Type	C: Leadscrew					
5	Stroke	05: 50 mm 10: 100 mm 20: 200 mm 30: 300 mm					

Specifications

Product Name	Frame Size [mm]	Driving Screw Type	Repetitive Positioning Accuracy	Screw Diameter [mm]	Lead [mm]	Stroke [mm]	Permissible Thrust [N]	Permissible Speed [mm/s]	Transporta [k Horizontal	able Mass g] Vertical	Self-Locking Force* [N]
LA422C05			[mm]			50					
			adaaraw +0.05	ф8	2	50	100	30	- 10	10	100
LA422C10						100	100				
LA4212C20	□42	242 Leadscrew ±0.05			12	200	100 (~80 mm/s)	80		5	0
LA4212C20			10.05	φο			50 (~180 mm/s)	180			
LA4212C30						300	100 (~80 mm/s)	80			
LA4212C30							50 (~180 mm/s)	180			

Applicable Motor: 2-Phase/5-Phase Stepper Motors **PKP** Series 42 mm

Materials Screw Shaft: Stainless Steel Nut: PPS

Transfer Efficiency (Reference Value) Lead 2 mm: 35% Lead 12 mm: 70%

Note

*Shock or vibration may prevent the self-lock from operating correctly.

Be sure to apply the supplied grease to the sliding screw before use.

The backlash for the sliding screw's nut increases as the travel distance increases.

Amount of Backlash Change

Lead: 2 mm

Test Conditions Lead: 2 mm Thrust: 100 N Speed: 30 mm/s Lubricate every 10 km

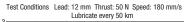


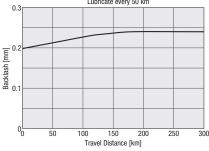
Dimensions (Unit = mm)

Lead:	12 mm
-------	-------

Product Line

Product Name LA422C05 LA422C10 LA4212C20 LA4212C30





DIMENSIONS (Unit = mm)							
Product Name	L1	L2	Stroke	Mass		CAD	
FIGUULLINAITIE				Body [kg]	Nut [g]	GAD	
LA422C05	80	87	50	0.16		B1594	
LA422C10	130	137	100	0.18		B1595	
LA4212C20	230	237	200	0.21	4	B1596	
LA4212C30	330	337	300	0.25	1	B1597	

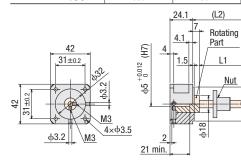
(L2)

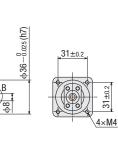
Part

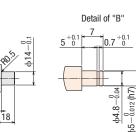
Nut

L1

Nut







18



ORIENTAL MOTOR (EUROPA) GmbH

European Headquarters Schiessstraße 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

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

Specifications are subject to change without notice. This catalogue was published in July 2024.

ORIENTAL MOTOR ITALIA s.r.l.

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

ORIENTAL MOTOR (FRANCE) SARL

France Headquarters 56, Rue des Hautes Pâtures 92000 Nanterre, France Tel: +33 1 47 86 97 50 Fax: +33 1 47 82 45 16

Customer Service Center (Support in German & English)

0080022556622*

Mon-Thu: 08:00 - 16:30 CET Friday: 08:00 - 15:00 CET *Free Call Europe

info@orientalmotor.de

