

Aluminum Double Diaphragm Shaft Coupler

This flexible shaft coupler is made from aluminum with a double diaphragm clamp design. It offers high torsional stiffness and low inertia.



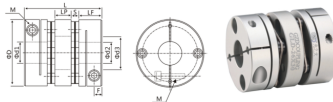
Overview

GLD aluminum alloy double diaphragms shorter Clamp series



- Features:**
- Bushings made of high strength aluminum alloy
 - The diaphragm is made of 304 stainless steel
 - With high torque capacity, can accurately control shaft rotation, high precision control can be performed
 - For servomotor/stepmotor connect
 - Zero backlash, suitable for forward reverse
 - Low rotational inertia, suitable for high-speed operation
 - Clamp type

● 外径 $\phi 19-\phi 44$



Construction details highlighting the high-strength aluminum alloy bushings and stainless steel diaphragm.

High-Precision Double Diaphragm Coupler

This flexible shaft coupler is engineered for high-precision motion control applications, including 3D printers, robotics, and automation systems. Featuring a durable aluminum alloy hub and 304 stainless steel diaphragms, it provides exceptional torsional stiffness and vibration damping. The clamp-style connection ensures a secure, reliable fit, while its low rotational inertia supports high-speed operation with zero backlash.

Key Features

Core Benefits

Zero Backlash, High Torsional Stiffness, Low Rotational Inertia, Corrosion Resistant, Vibration Damping

Technical Specifications

Performance Metrics (Model D26xL30)

1.5 N.m

Rated Torque

10000 rpm

Max Speed

1850 N.m/rad

Static Torsional Stiffness

32 g

Weight

Misalignment Tolerances (Model D26xL30)

0.15 mm

Allowable Eccentricity

1.5 deg

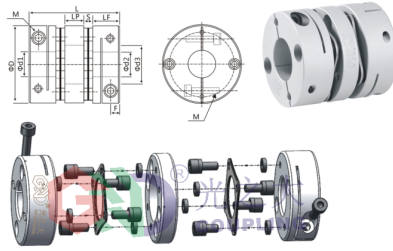
Allowable Angular

0.3 mm

Allowable Axial

Dimensions and Material

● 外径 $\Phi 50-\Phi 126$



Dimensional layout illustrating the clamp-style connection and mounting configuration.

Physical Properties

Property	Value
Outer Diameter	26 mm
Length	30 mm
Hub Material	High-strength Aluminum Alloy
Diaphragm Material	SUS304 Stainless Steel
Surface Treatment	Anodic Oxidation
Fastening Screw	M3

Compatibility

Example: GLD - \square × \square - \square × \square

Series Diameter Length d1/d2 d3/d4

Example: GLD-26×30 8×9

□: Outer Diameter

□: Length

□: Diameter/Diam

□: Diameter

□: Length

□: d1/d2

□: d3/d4

Illustrate if you need to add another slot below, you can customize in non-standard form please add & after the model shaft diameter size

Example: GLD-26×30-8K*9K, Indicates that both inner holes are opened

外形尺寸 (单位: mm)

Model No.	Series	Outer diameter	OD	L	LP	LF	Od1	S	F	M	重量 (g)
GLD-19-24.5	19	24.5	9.1	2.7	9	1.8	3.3	M3	0.8		
GLD-26-30	26	30	10	3	10	2.4	3.8	M3	1.2		
GLD-32-38	32	38	12.25	4.5	15	2.5	3.95	M3	1.8		
GLD-38-43	38	43	14.5	5.5	18	3.5	3.85	M3	2.5		
GLD-44-47	44	47	16.5	6.1	22.5	4.5	5	M4	3.5		
GLD-50-53	50	53	17.5	7.0	28	5.5	5.8	M4	5		
GLD-56-59	56	59	19.75	8.5	32.5	6.5	6.8	M5	7		
GLD-63-68	63	68	23.25	9.7	38.5	8.5	7.7	M5	8		
GLD-70-75	70	75	26	11	45.5	9	9.7	M5	10		
GLD-76-81	76	81	28	11	47.5	9	10	M5	10		
GLD-84-89	84	89	30	11	47.5	10	10	M5	10		
GLD-90-95	90	95	33	11	47.5	10	10	M5	10		
GLD-100-105	100	105	35	11	57.5	12	12	M6	15		

Dimensional reference guide for selecting the correct shaft diameter and model size.

Compatible Shaft Diameters (d1, d2)

- 5
- 6
- 6.35
- 7
- 8
- 9
- 9.525
- 10
- 11
- 12
- 12.7