

Orientalmotor

Flange Drive Adapter

Permissible load has been increased by mounting with a parallel shaft gearhead. Direct mounting of the rotation mechanism to wheels or rotary tables has been simplified, which helps reduce design time.



Flange Drive Adapter
AGD580B
List Price: \$552.00

Increased
Permissible
Load



Compatible
Brushless Motors



BLH Series 100 W (1/8 HP)

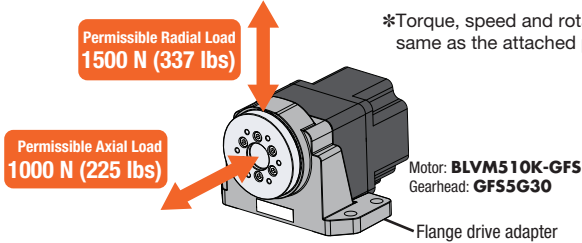


BLV Series 100 W (1/8 HP)

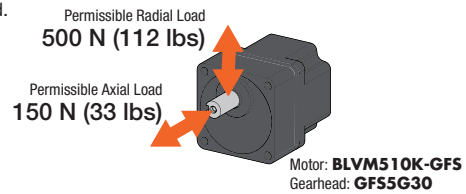
Greatly Increased Permissible Load

High permissible load is achieved by adopting a cross-roller bearing. Large increases to the permissible radial load and permissible axial load allow for the capability of handling of loads larger than with the gearhead alone.

Flange Drive Adapter



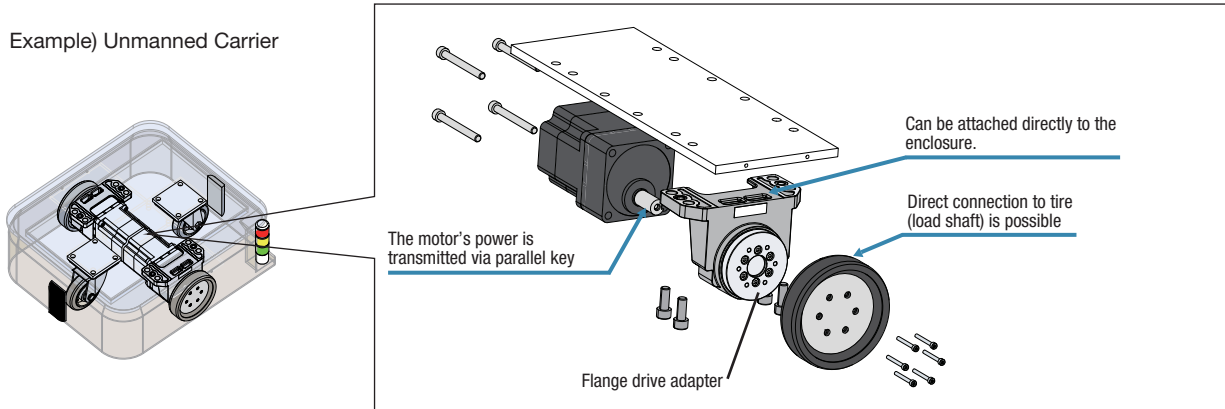
Only Parallel Shaft Gearhead



Simplified Design

Thanks to the integration with cross-roller bearings, load attachment tables, etc., the time to arrange extra parts and mechanism design is reduced. Installation work is also simplified because they can be attached directly to the load shaft or directly to the enclosure.

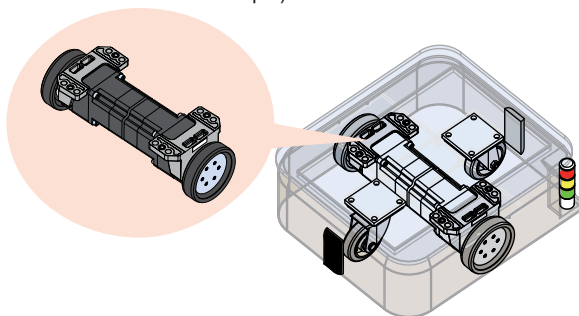
Example) Unmanned Carrier



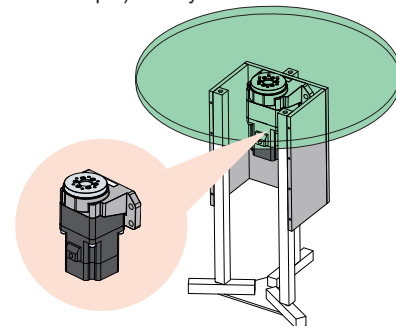
Heavy Object Rotation Applications Recommended for Driving Unmanned Carriers and Rotary Tables

The increased permissible load makes transportation of heavy objects possible for unmanned carriers and rotary tables.

Example) Unmanned Carrier



Example) Rotary Table



Product Line

Product Name	List Price	Applicable Product
AGD580B	\$552.00	BLV Series 100 W (1/8 HP) with Parallel Shaft Gearhead BLH Series 100 W (1/8 HP) with Parallel Shaft Gearhead

Specifications

Specifications

Item	Specifications	
Max. Speed	[r/min]	1000
Rotation Direction		Same direction as gearhead
Permissible Radial Load (mounting surface)	[N]	Up to 300 r/min: 1500 (337 lbs)
		Over 300 r/min: 1000 (225 lbs)
Permissible Axial Load	[N]	Up to 150 r/min: 1000 (225 lbs)
		Over 150 r/min: 500 (112 lbs)
Internal inertia J*	$[\times 10^{-4} \text{kg}\cdot\text{m}^2]$ (oz-in ²)	4.38

*Select by adding the mechanism's inertia to the internal inertia of the flange drive adapter.

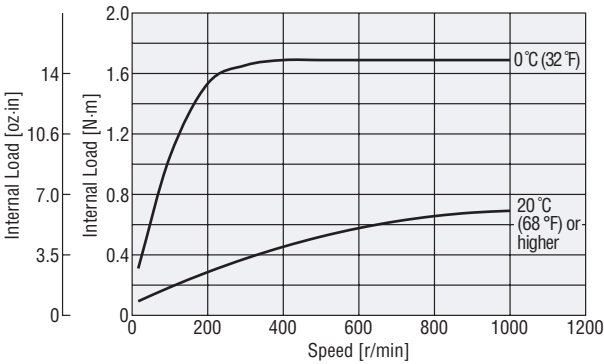
● For the specifications of the compatible **BLH** Series and **BLV** Series motors, please check the product catalog or the Oriental Motor website.

Speed – Internal Load Characteristics (Reference values)

The internal load of the flange drive adapter can vary depending on the operating ambient temperature, increasing the load applied to the motor and gearhead.

Select motor and gearhead carefully when using in low temperature environments.

AGD580B



Example) When using at 200 r/min at an ambient temperature of 0 °C (32 °F), add 1.6 N·m (14.16 lb-in) to the mechanism's load torque and select the appropriate motor and gearhead.

Note

Data for the speed – internal load characteristics is based on Oriental Motor's internal measurement conditions.

If conditions such as ambient temperature are changed, the characteristics may also change as a result.

Internal load decreases due to conformability, so do not use as holding force.

Dimensions Unit = mm (in.)

Mass: 1.6 kg (3.53 lb.)

2D CAD A1805

