

Thank you for purchasing an Oriental Motor product.  
 This Operating Manual describes product handling procedures.

- Please read it thoroughly.
- Always keep the manual where it is readily available.

## Introduction

### ■ Before use

The product described in this manual has been designed and manufactured for use in general industrial machinery, and must not be used for any other purpose. Oriental Motor Co., Ltd. is not responsible for any damage caused through failure to observe this warning.

### ■ Hazardous substances

The products do not contain the substances exceeding the restriction values of RoHS Directive (2011/65/EU).

## Checking the product

Verify that the items listed below are included. Report any missing or damaged items to the branch or sales office from which you purchased the product.

- Gearhead..... 1 unit
- Screws, nuts, washers.... 4 pcs. each (Refer to the catalog for screw size.)  
 The **5GU□KBH** does not come with nuts.
- Parallel key ..... 1 pc. (supplied with gearhead having key grooves on the output shaft.)
- OPERATING MANUAL... 1 copy (this document)

## Precautions for use

### • Installation location

Ambient temperature; -10 to +50 °C (+14 to +122 °F) and 85% humidity.  
 Do not use your gearmotor where it may be exposed direct sunlight water and/or oil.

Do not use your gearmotor in locations subject to severe vibration or shock, a large amount of dust, inflammable gas and or corrosive gas.

### • Grease measures

On rare occasions, a small amount of grease may ooze out from the gearhead. If there is concern over possible environmental damage resulting from the leakage of grease, check for grease stains during regular inspections. Alternatively, install an oil pan or other device to prevent leakage from causing further damage. Oil leakage may lead to problems in the customer's equipment or products.

### • Rotating direction of the gearhead output shaft

With some gear ratios, the motor and gearhead output shaft will rotate in opposite directions. Refer to catalogue for details.

### • Maximum permissible torque

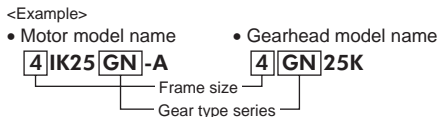
The torque limit is defined as the "maximum allowable torque," which is specified in accordance with the gearhead size and gear ratio. Refer to catalogue for details. Also, be sure shaft rotation is not stopped by an external force or load obstruction. The resulting shock may damage the gearhead.

### • Permissible radial load and permissible axial load

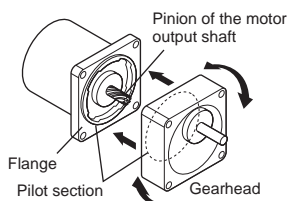
The radial load and axial load have a great influence on the life of the bearings and strength of the shaft. Do not exceed the permissible radial load and permissible axial load. Refer to catalogue for details.

## Assembling the motor with the gearhead

Check the model names of the motor and gearhead. Gearheads and motors will fit together only if they are both of the same frame size and of the same gear type.



Using the pilot sections of the motor and gearhead as guides, slowly rotate it clockwise/counterclockwise to prevent the pinion of the motor output shaft from contacting the side panel or gear of the gearhead. Also confirm that no gaps remain between the motor and gearhead.

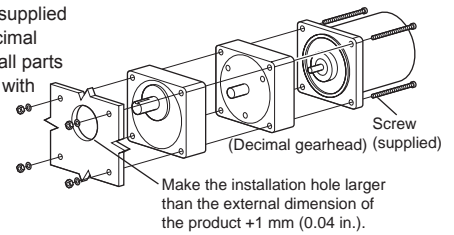


**Note** Do not forcibly assemble the motor and gearhead. Also, do not let metal objects or other foreign matters enter the gearhead. The pinion or gear of the motor output shaft may be damaged, resulting in noise or shorter service life.

## Install the motor/gearhead to the equipment

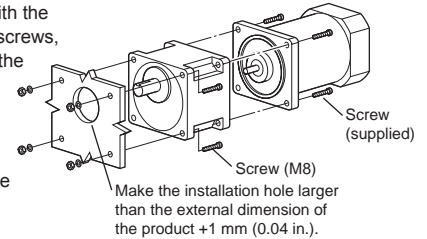
### ■ GN type, GE type, 5GU□KB type, GB type

Use the mounting screws supplied with the gearhead. If a decimal gearhead is used, secure all parts using the screws supplied with the decimal gearhead.



### ■ 5GU□K type, 5GU□KBH type

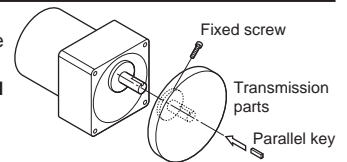
After assembling the motor with the gearhead using the supplied screws, install the motor/gearhead to the equipment. The customer must provide the mounting screws for installing to the equipment.



Recommended mounting plate thickness: 8 mm (0.31 in.)  
 Mounting screw size: M8

## Attaching the load

The shaft of the gearhead has been machined to an outer diameter tolerance of h7 and is provided with a key slot for connecting the transmission parts. (**0GN** type, **2GN** type and **GB** type have a flat on the shaft.)



When connecting the transmission parts, ensure that the shaft and parts have a clearance fit, and secure with a screw to prevent the parts from wobbling. For the gearhead with a screw hole at the tip of its output shaft, use the hole as an auxiliary for preventing the transmission component from disengaging.

**Note** Do not use excessive force, or hammer the transmission parts onto the gearmotor shaft as damage may occur.



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