



## Operating Cautions – GW series

### ■ Lubrication

Use lithium soap-based grease with excellent watertightness and heat resistance as lubricating grease and use spindle oil or turbine oil (#90~#180) as lubricating oil.

### ■ Shaft-end machining

When using the ball screw, the shaft end requires an additional machining. KURODA takes on the machining of the shaft end to maintain accuracy. Specify the intended size by the attached shaft end finish ordering sheet. If the shaft-end machining is held by other than KURODA, the accuracy of the products is not guaranteed.

(When performing shaft-end machining in your company)

As the fixed side bearing unit is not hardened, post-machining can be easily performed. The unhardened shaft end is coated with white paint for discrimination.

As the supported side is hardened to surface hardness of HRC 56 to 62, latheturning or grinding by using a cutting tool for quench-hardened steel is recommended.

Precautions at the time of shaft-end machining

- In the case of additional machining, perform centering on the basis of outside diameter.
- When removing the nut for shaft-end machining, use the attached sleeve in the same manner as required for standard ground ball screws GE and GG series.
- When assembling the screw shaft with the nut, be sure to remain the same combination as at the time of delivery.

If the combination is changed, the ball screw may lose smooth operation in order not to keep the appropriate axial clearance.