

Precautions on Use

Lead Screw Nut

[Handling]

- (1) Make sure the Lead Screw Nut is not dropped or subjected to any sudden impact, as this could cause injury and damage the product. Even if there is no outward indication of damage, a sudden impact could prevent the unit from functioning properly.
- (2) When handling the product, wear protective gloves, safety shoes, etc., as necessary to ensure safety.

[Precautions on Use]

- (1) Prevent foreign material, such as cutting chips or coolant, from entering the product. Failure to do so may cause damage.
- (2) If the product is used in an environment where cutting chips, coolant, corrosive solvents, water, etc., may enter the product, use bellows, covers, etc., to prevent them from entering the product.
- (3) If foreign material such as cutting chips adheres to the product, replenish the lubricant after cleaning the product.
- (4) Do not forcibly drive a pin, key, or other positioning device into this product; this could create indentations on the sliding surface and impair the product's function.
- (5) Skewing or misalignment of the Lead Screw Nut and the element that supports the screw shaft can drastically reduce service life. Inspect the components carefully and make sure they are mounted correctly.
- (6) If the unit will be positioned vertically, install safety equipment or take other measures to prevent it from toppling over.
- (7) To avoid damaging the product, use the Lead Screw Nut in combination with an LM Guide, Ball Spline, or other guide element.
- (8) Insufficient rigidity or accuracy of mounting members causes the bearing load to concentrate on one point and the bearing performance will drop significantly. Accordingly, give sufficient consideration to the rigidity/accuracy of the housing and base and strength of the fixing bolts.

[Lubrication]

- (1) Thoroughly wipe off anti-rust oil and feed lubricant before using the product.
- (2) Do not mix different lubricants. Even lubricants containing the same type of thickening agent may, if mixed, interact in an adverse manner due to disparate additives or other ingredients.
- (3) When using the product in locations exposed to constant vibrations or in special environments such as clean rooms, vacuum and low/high temperature, use the grease appropriate for the specification/environment.
- (4) Following lubrication, perform several warm-up strokes with the unit to ensure that lubricant permeates the interior.
- (5) Lubricant viscosity can vary depending on the temperature. Please keep in mind that the Lead Screw Nut's sliding resistance may be affected by changes in viscosity.
- (6) Following lubrication, stirring-resistance within the lubricant can cause the Lead Screw Nut to exhibit increased rotational torque. Before commencing operations, make sure to run the unit through several warm-up cycles to ensure that the lubricant is adequately integrated and dispersed.
- (7) Excess grease may scatter immediately after lubrication, so wipe off scattered grease as necessary.
- (8) The properties of grease deteriorate and its lubrication performance drops over time, so grease must be checked and added properly according to the use frequency of the machine.

- (9) The greasing interval varies depending on the use condition and service environment. Set the final lubrication interval/amount based on the actual machine.
- (10) If a lubricant will be used, the application must be designed in such a way that the direction in which the Lead Screw Nut is installed does not prevent lubricant from circulating.

[Storage]

Lead Screw Nuts should be stored horizontally in their original packaging in an indoor location where they are not exposed to abnormally high or low temperatures or high humidity.

[Disposal]

Dispose of the product properly as industrial waste.