

## 2. Precautions on Using LM Guide Actuator Model KR

### Handling

- (1) Disassembling components may cause dust to enter the system or degrade mounting accuracy of parts. Do not disassemble the product.
- (2) Dropping or hitting model KR may damage it. Giving an impact to it could also cause damage to its function even if the product looks intact.

### Lubrication

- (1) Thoroughly remove anti-corrosion oil and feed lubricant before using the product.
- (2) Do not mix lubricants of different physical properties.
- (3) In locations exposed to constant vibrations or in special environments such as clean rooms, vacuum and low/high temperature, normal lubricants may not be used. Contact **THK** for details.
- (4) When planning to use a special lubricant, contact **THK** before using it.
- (5) When adopting oil lubrication, contact **THK** in advance.
- (6) To maximize the performance of model KR, lubrication is required. Using the product without lubrication may increase wear of the rolling elements or shorten the service life.  
In normal use, the lubricant must be replenished every 100 km as a guide. However, the greasing interval varies according to the service conditions. We recommend determining the greasing interval based on the result of the initial inspection.

Recommended grease: KR15: **THK** AFF Grease  
KR20, 26: **THK** AFA Grease  
KR30H to 65: **THK** AFB-LF Grease

For clean room applications, low dust-generative AFF Grease is available. Contact **THK** for details.

### Precautions on Use

- (1) Entrance of foreign matter may cause damage to the ball circulating component or functional loss. Prevent foreign matter, such as dust or cutting chips, from entering the system.
- (2) When planning to use the product in an environment where the coolant penetrates the nut block, contact **THK** in advance.
- (3) When desiring to use the system at temperature of 80°C or higher, contact **THK** in advance.
- (4) If foreign matter adheres to the product, replenish the lubricant after cleaning the product. For the type of the detergent to be used, contact **THK**.
- (5) Exceeding the permissible rotation speed may lead the components to be damaged or cause an accident. The rotation speed during operation must be within the **THK** specifications.
- (6) When using the product in locations exposed to constant vibrations or in special environments such as clean rooms, vacuum and low/high temperature, contact **THK** in advance.

### Storage

When storing model KR, enclose it in a package designated by **THK** and store it in a horizontal orientation while avoiding high temperature, low temperature and high humidity.