

# 8. Precautions on Using the LM Guide®

## Handling

- (1) Disassembling components may cause dust to enter the system or degrade mounting accuracy of parts. Do not disassemble the product.
- (2) Tilting an LM block or LM rail may cause them to fall by their self weights.
- (3) Dropping or hitting the LM Guide may damage it. Giving an impact to the LM Guide could also cause damage to its function even if the guide 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, the lubricant may not be distributed throughout the LM system depending on the mounting orientation of the system. Contact **THK** for details.
- (6) Lubrication interval varies according to the service conditions. Contact **THK** for details.

## Precautions on Use

- (1) Entrance of foreign matter may cause damage to the ball (roller) circulating path or functional loss. Prevent foreign matter, such as dust or cutting chips, from entering the system.
- (2) When planning to use the LM system in an environment where the coolant penetrates the LM block, it may cause trouble to product functions depending on the type of the coolant. Contact **THK** for details.
- (3) Do not use the LM system at temperature of 80°C or higher. When desiring to use the system at temperature of 80°C or higher, contact **THK** in advance.
- (4) If foreign matter adheres to the LM system, replenish the lubricant after cleaning the product. For available types of detergent, contact **THK**.
- (5) When using the LM Guide with inverted mount, breakage of the endplate due to an accident or the like may cause balls (rollers) to fall and the LM block to come off from the LM rail and fall. In these cases, take preventive measures such as adding a safety mechanism for preventing such falls.
- (6) When using the LM system in locations exposed to constant vibrations or in special environments such as clean rooms, vacuum and low/high temperature, contact **THK** in advance.
- (7) When removing the LM block from the LM rail and then replacing the block, an LM block mounting/removing jig that facilitates such installation is available. Contact **THK** for details.

## Storage

When storing the LM Guide, enclose it in a package designated by **THK** and store it in a horizontal position while avoiding high temperature, low temperature and high humidity.