

# 9. Precautions on Using the Ball Spline

## Handling

- (1) Disassembling components may cause dust to enter the system or degrade mounting accuracy of parts. Do not disassemble the product.
- (2) Tilting a spline nut or spline shaft may cause them to fall by their self-weights.
- (3) Dropping or hitting the Ball Spline may damage it. Giving an impact to the Ball Spline 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, the lubricant may not be distributed throughout the product 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 circulating path or functional loss. Prevent foreign matter, such as dust or cutting chips, from entering the system.
- (2) Do not use the product at temperature of 80°C or higher. When desiring to use the system at temperature of 80°C or higher, contact THK in advance.
- (3) When planning to use the product in an environment where the coolant penetrates the spline nut, it may cause trouble to product functions depending on the type of the coolant. Contact THK for details.
- (4) If foreign matter adheres to the product, replenish the lubricant after cleaning the product.
- (5) 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 the Ball Spline, enclose it in a package designated by THK and store it in a horizontal orientation while avoiding high temperature, low temperature and high humidity.