

2. Precautions on Using the Precision Linear Pack

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 the Precision Linear Pack may damage it. Giving an impact to the Precision Linear Pack could also cause damage to its function even if the product looks intact.
- (3) Removing the inner block of the Precision Linear Pack from the outer rail or letting it overrun will cause balls to fall off.

Lubrication

- (1) Thoroughly remove anti-corrosion oil with a cleaning detergent and apply lubricant before using the product. As the most suitable grease, we recommend **THK** AFC Grease, which maintains lubricity over a long period of time. For lubrication in a clean room, low dust generation **THK** AFE Grease and **THK** AFF Grease are recommended.
- (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.

Installation

The mounting surface of Precision Linear Pack model ER must be finished to the maximum accuracy.

For securing the outer rail of models ER513 and ER613, also purchase and use No. 0 screws for precision equipment (see table 1) (if using ordinary screws, the inner block may hit the screw head).

Table 1 Outer Rail Securing Screws for Models ER513 and ER616

Model No.	Type	Nominal name of screw x pitch
ER513	No. 0 pan-head screw	M2X0.4
ER616	(class 1)	M2.6X0.45

Japan Camera Industry Association Standard JCS 10-70

Cross-recessed screw for precision equipment (No. 0 screw)

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) If foreign matter such as dust or cutting chips adheres to the product, replenish the lubricant after cleaning the product with pure white kerosene.
- (3) When desiring to use the system at temperature of 80°C or higher, contact **THK** in advance.
- (4) 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 Precision Linear Pack, enclose it in a package designated by **THK** and store it while avoiding high temperature, low temperature and high humidity.