

2. Precautions on Using the Cross Roller Table

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 Cross Roller Table may damage it. Giving an impact to the Cross Roller Table could also cause damage to its function even if the product looks intact.

Lubrication

- (1) For lubrication of the Cross Roller Table, use lithium-soap group grease or oil according to the application, as with ordinary bearings.
- (2) Thoroughly remove anti-corrosion oil and feed lubricant before using the product.
- (3) Do not mix lubricants of different physical properties.
- (4) 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.
- (5) When planning to use a special lubricant, contact THK before using it.

Additional Machining of the Table and the Base

When additionally machining the table and the base of the Cross Roller Table according to the service conditions such as drilling mounting holes, adhere to the following precautions.

- (1) Do not let cutting chips enter the Cross Roller Guide unit.
- (2) Machine the mounting holes as blind holes, not through holes.

THK can perform additional machining such as mounting holes as requested.

The clearance of the Cross Roller Table is adjusted to the appropriate preload. Do not touch the clearance adjustment screw.

Offset of the Cage

The cage, which retains rollers (or balls), demonstrates extremely accurate motion. However, it may be offset as affected by driving vibrations, inertia or impact.

If using the Cross Roller Guide or Ball Guide in the following conditions, contact THK.

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|---------------------------|--|
| ●Vertical use | ●Under a large moment load |
| ●Pneumatic cylinder drive | ●Butting the guide's external stopper with the table |
| ●Cam drive | |
| ●High-speed crank drive | |

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 100°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 Cross Roller Table, enclose it in a package designated by **THK** and store it while avoiding high temperature, low temperature and high humidity.