

1.6. Lubrication

Select a lubrication method according to the service conditions of the nut.

Oil Lubrication

For the lubrication of the nut, oil lubrication is recommended. Specifically, oil-bath lubrication or drop lubrication is particularly effective. Oil-bath lubrication is the most appropriate method since it meets harsh conditions such as high speed, heavy load or external heat transmission and it cools the nut. Drop lubrication suits low- to medium-speed and a light- to medium-load. Select a lubricant according to the service conditions as indicated in table 3.

Table 3 Selection of a Lubricant

Service conditions	Type of lubricant
Low speed, heavy load, high temperature	High-viscosity sliding surface oil or turbine oil
High speed, light load, low temperature	Low-viscosity sliding surface oil or turbine oil

Grease Lubrication

In low-speed feed, which occurs less frequently, the user can lubricate the slide system by manually applying grease to the shaft on a regular basis or using the greasing hole on the nut. We recommend lithium soap group grease No. 2.

Initial Lubrication of the Miniature Change Nut

Since the Miniature Change Nut is made of oil-impregnated plastics, it can be used without lubrication during operation. For the initial lubrication, use oil or grease. Note, however, that lubricants containing much extreme pressure agent are not suitable.