- Recommendation for correct "lubrication" -LM Guide-

**Prolong the service life of the LM Guide by correct lubrication**

"Grease" is a must for the LM Guide to use it for a long time. **Using it without greasing may increase wears of the rolling elements and shorten the service life.**

Please confirm that oil is attached sufficiently to the raceway: "groove" on which the ball runs.

Please also confirm that oil is attached sufficiently to the "seal contact surface."

**If the part is dry, greasing is required.**

To maximize the functions of the LM Guide and use it for a long time, keep sufficient oil attached to it at any times.
If any dust, etc. is attached, wipe it off immediately

Securely confirm that no foreign material is attached to the LM rail. **If any foreign materials are left, they may enter inside the LM block.**

If you find any dust attached, please wipe it off with a waste cloth, etc. and then **grease the LM block.**

Then, as shown in the right photo, **please apply grease to the LM rail in a thin layer.**

This is for the purpose of reduction in wears of the contamination protection seal and its protection.

If you are using the LM Guide in any environments in which foreign materials are easy to attach to the LM rail, we will propose countermeasures such as attaching a cover, etc.
Grease regularly

[Basic greasing method]
*The "amount" and "frequency" of grease vary according to the product you are using and environment and conditions in which you are using the product.

(1) Stop the equipment and inject one or two shots of grease with a grease gun from the grease nipple.
(2) Make one or two round trips on the stroke "five times longer" than the overall length of the LM block.
(3) Repeat (1) and (2) and apply grease sufficiently to the raceway up to the stroke end.

Greasing frequency - It varies depending on the conditions and environments. For normal use, we recommend greasing the system approximately every 100 km of travel distance.
- Recommendation for correct "lubrication" -LM Guide-

Select the grease suitable for your environment

THK provides various **original greases**.

- **Light-resistance**
  - AFA

- **Universal**
  - AFB-LF

- **High-speed/micro-vibration**
  - AFC

- **Clean environment**
  - AFE-CA
  - AFF
  - AFG
  - AFJ

**Grease guns, grease nipples**, and **special plumbing fixtures** useful for greasing are also available.

**Grease gun unit** MG70

**Grease Nipple**

**Special Plumbing Fixtures**

Maximize the performance of the product using the best grease correctly.
- Recommendation for correct "lubrication" -LM Guide-

For safe usage of the LM Guide

**We propose the best original grease**

When purchasing a grease, please specify the model number described in "THK official drawing".

If you don't have one, please contact THK.

If you tell us as much details about your environment as possible, we can make a proposal smoothly.

**Do correct and sufficient lubrication.**

The raceway of the LM rail needs oil.

THK also proposes the best lubrication method for your environment.

If you have any questions, feel free to contact THK.

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