

Maintenance

To maintain smooth operation, grease should be inspected and checked periodically and grease replaced if necessary. Regular grease maintenance will prevent rust and extend product life cycle significantly.



Effect of Grease

Minimizes friction to enable smooth drive.

Grease maintenance procedure

- ① Wipe off old grease.
 - ② Apply new grease.
 - ③ Move the stage over the full range several times to distribute grease thoroughly.
 - ④ Wipe off excess grease from step ③.
- * Too much grease will cause dust to adhere.

Guide

- Stages can be returned to OptoSigma for maintenance. Contact our Sales Division for more information.

Attention

- When handling grease, avoid contamination with foreign substances, mixing with different type of grease and exposure to excessive heat.

Specifications

Part Number	AFA	AFB
Motorized Stages Used	SGSP15 Series SGSP20 Series SGSP26 Series	SGSP33 Series SGSP46 Series SGSP65 Series TAMM
Manufacturer	THK CO., LTD.	THK CO., LTD.
Operating Temperature Range [°C]	-45 ~ +160	-15 ~ +100

Cleanroom / Vacuum Grease

Grease used for motorized stages can be replaced with grease for clean room environments or grease for vacuum applications.

Replacement Sites

Motorized stage : Ball screw part, crossed roller part (TAMM series)
Contact OptoSigma before changing grease as grease used for each component (guide / ball screw) is different.

Rotation stage : Cannot be replaced by customer. Contact OptoSigma for more information.

Goniometer stage : Cannot be replaced by customer. Contact OptoSigma for more information.

Attention

- Please be noted that if the grease is replaced, there is a possibility that Max speed of the stage would be significantly lower than the specified value on our catalogue. Please contact our Sales Division for further information.

Features

Low dust generation grease for clean room environments

Reduces burden for maintenance since it is hard to deteriorate and has long life.
It may lose fluidity and get hard suddenly in low-temperature environments.

Fomblin Vacuum Grease

Has excellent heat resistance, lubricity and compatibility with other materials.
It has long life and is usable in high temperature (-20°C ~ +250°C).

Specifications

Part Number	AFE-GREASE-C	YVAC-GREASE-C
Number of Axes [axis]	1	1
Manufacturer	THK CO., LTD.	Solvay Solexis
Name	Low dust generation grease for clean room environments	Fomblin Vacuum Grease
Part Number	AFE	YVAC
Operating Temperature Range [°C]	-40 ~ +120	-20 ~ +250

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Options

40 × 40 mm

60 × 60 mm

80 × 80 mm

85 × 85 mm

100 × 100 mm

120 × 120 mm

Others