

Handling Precautions for Optional Accessories for the LM Guide

QZ Lubricator for the LM Guide

For details regarding the QZ Lubricator, see **A1-538**.

Selection Precautions

Secure a stroke longer than the overall LM block with QZ Lubricator attached.

Handling

Take care not to drop or strike this product. Otherwise, it may cause injury or damage the unit. Do not block the vent hole with grease or the like.

The QZ Lubricator supplies oil only to the raceway, so use it in combination with regular greasing/oil lubrication. If the product is used in an environment exposed to coolant, cutting chips, or other foreign material, oil on the raceway is lost easily. Accordingly, be sure to also use covers, bellows, etc.

Service Environment

Be sure the service temperature of this product is between -10°C and 50°C. Do not clean the product by immersing it in an organic solvent or kerosene, or leave it unpacked.

Laminated Contact Scraper LaCS, Side Scraper for the LM Guide

For details regarding the Laminated Contact Scraper LaCS, see **A1-512**. For details regarding the side scraper, see **A1-514**.

Handling

The lubricant impregnated into the scraper is used to increase its sliding capability. For lubrication of the LM Guide, attach a QZ Lubricator or grease nipple to the side face of the end plate of the LM block before providing a lubricant.

When using these products, be sure to attach C caps or a plate cover to the rail.

Service Environment

Be sure the service temperature of this product is between -20°C and +80°C. Do not clean the product by immersing it in an organic solvent or kerosene, or leave it unpacked.

Notes on Product Functions

It is specifically designed to provide dust prevention capability to remove foreign material and liquid. To seal oil, an end seal is required.

Light Contact Seal LiCS for the LM Guide

For details regarding the Light-Resistance Contact Seal LiCS, see **A1-517**.

Handling

The lubricant impregnated into Light-Resistance Contact Seal LiCS is used to increase its sliding capability. For lubrication of the LM Guide, attach the grease nipple on the end plate of the LM block before lubricating.

Service Environment

Be sure the service temperature of this product is between -20°C and $+80^{\circ}\text{C}$. Do not clean the product by immersing it in an organic solvent or kerosene, or leave it unpacked.

It only makes contact with the LM rail raceway. Do not use it in harsh environments.

High Chemical Resistance Fluorine Seal FS for the LM Guide

For details about the high chemical-resistance fluorine seal, see **A1-518**.

Handling

Be careful not to twist the seal portion when attaching the high chemical-resistance fluorine seal to the LM Guide. Also, do not store the product in a way that may deform the seal, such as by stacking it. This may cause damage or reduce the seal's functionality.

Service Environment

Be sure the service temperature of this product is between -20°C and $+80^{\circ}\text{C}$. Do not clean the product by immersing it in an organic solvent or kerosene, or leave it unpacked.

GC Cap

For details regarding the GC cap, see **A1-567**.

Handling

If GC caps are specified for the product, the edges of the LM rail mounting hole openings will be sharp. Take great care not to injure your fingers or hands while working.

When fitting GC caps, use a flat aligning tool to gradually punch the cap into the hole until it is level with the upper surface of the LM rail. Then run an oil stone over the rail until the upper surface of the rail and the GC caps are completely flat.

During installation or removal, burrs and small debris on the cap may scatter, so be sure to wear protective goggles and avoid using sharp tools during work.

