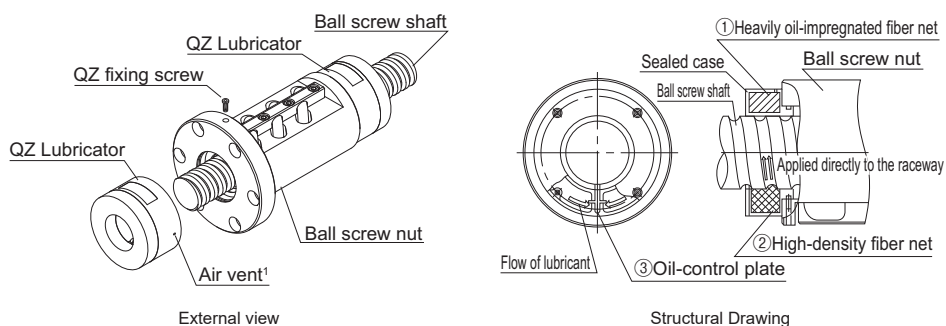


QZ Lubricator

● For the supported models and the ball screw nut dimension with QZ Lubricator attached, see [A15-364](#) to [A15-373](#).

The QZ Lubricator feeds the right amount of lubricant to the ball screw shaft raceway. This allows an oil film to continuously form between the balls and the raceway, and it significantly extends the lubrication maintenance intervals.

The structure of the QZ Lubricator consists of three major components: (1) a heavily oil-impregnated fiber net (functions to store lubricant), (2) a high-density fiber net (functions to apply lubricant to the raceway) and (3) an oil-control plate (functions to adjust oil flow). The lubricant contained in the QZ Lubricator is primarily fed by capillary action, which is also used in devices such as felt-tip pens.



Features

- Since the QZ Lubricator compensates for oil loss, the lubrication maintenance interval can be significantly extended.
- Because it feeds the appropriate amount of lubricant directly to the ball raceway, it is an environmentally-friendly lubrication system that does not contaminate the surrounding area.

¹ Some types of QZ Lubricator have a vent hole. Be careful not to block the hole with grease or other obstructions.

Model number coding

BIF2505V-5 **QZ** **WW** **G0 +1000L** **C5**

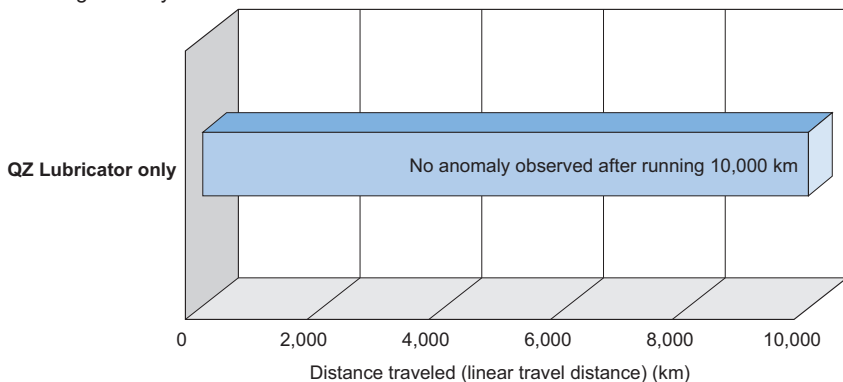
With QZ
Lubricator

With wiper ring W

(*) See [A15-364](#).

● Significantly extended maintenance interval

Since the QZ Lubricator continuously feeds a lubricant over a long period, the maintenance interval can be significantly extended.

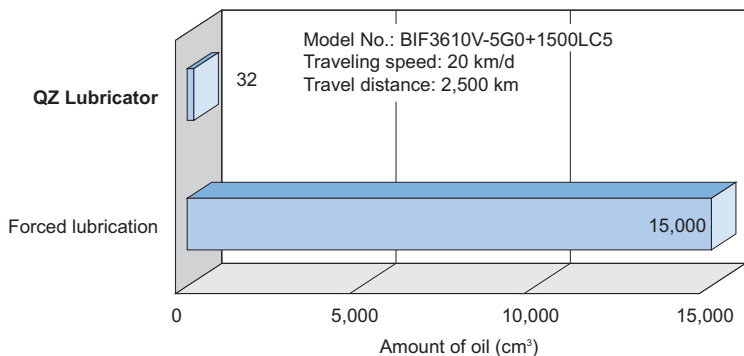


Test conditions

Item	Description
Ball screw	BIF2510V
Maximum rotational speed	2,500 min ⁻¹
Maximum speed	25 m/min
Stroke	500 mm
Load	Internal preload only

● Environmentally friendly lubrication system

Since the QZ Lubricator feeds the right amount of lubricant directly to the raceway, the lubricant can effectively be used without waste.



QZ Lubricator + THK AFA Grease

32 cm³

(QZ Lubricator attached to both ends of the ball screw nut)



Forced lubrication

**0.25 cm³ / 3 min × 24 h × 125 d
= 15,000 cm³**

Reduced to approx. $\frac{1}{470}$