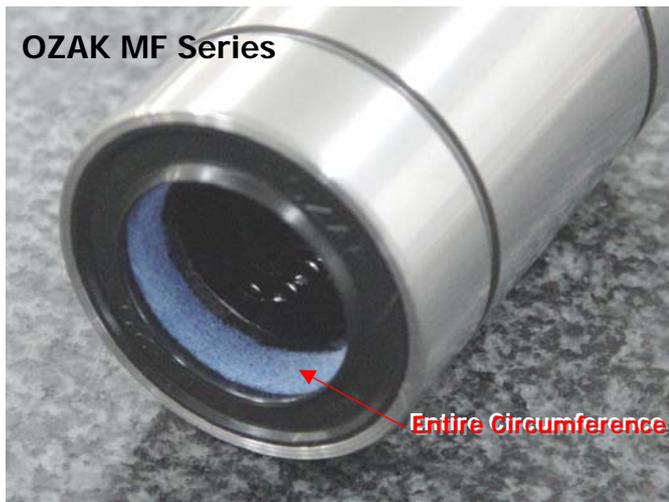
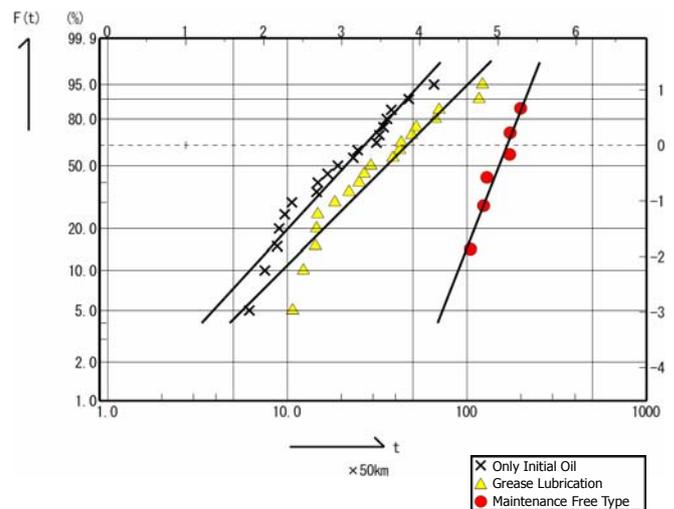


## Dust-proof and Grease Enclosed Type for Long Life

Patent Products



As a special seal around entire circumference, MF series are features continuous oil supply and high dust-proof. And grease leakage is reduced to the utmost limit by newly developed seal.



### Features



#### ■ High Reliability

Grease leakage is reduced to the utmost limit by newly developed seal, therefore proper oil film is formed on a contact surface and bearings long-lived is promoted comparing with existing ones. Please appoint a grease type among following types. G grease: for general industry, CG: for clean environment(low dust generation grease), VG: for vacuum condition, HG: for high and low temperature, FG: for food industry equipment

#### ■ Unnecessity of Grease Supply

As high lubrication performance and long term continuation, periodic grease supply becomes unnecessary. And you can save maintenance trouble.

#### ■ Rustproof

Rustproof type is standardized. This type is more suitable to corrosive environment than normal type.

#### ■ Seal Performance

Special seals have functions of oil holding and prevention of particles invasion. Though existing seals can prevent particle invasion enough, this series are better for dusty environment than existing ones.

#### ■ Quiet operating noise

As grease being enclosed and higher seal performance, operating noise becomes quiet.

### Rated Life



We are always doing performance evaluation tests of bearings and so on. Rated life of bearings under a test with initial grease is further 1.75 times at the life under a test with initial oil.

Now we are doing a test of this MF series.

The rated life of the MF series can be calculated by the following formula.

$$L_{10} = \left( \frac{C}{f_s \cdot P} \right)^3 \cdot 50 \text{ km} \quad (1)$$

$L_{10}$ : Rated life km

C: Basic dynamic load rating N

P: Acting radial load N

$f_s$ : Impulse, vibration or speed factor See Table 1

**Table 1: Impulse, Vibration or Speed Factor**

Conditions	$f_s$
When the reciprocating motion speed is $V=300\text{mm/sec}$ or less without impact or vibration	1~1.5
When the reciprocating motion speed is $V=1000\text{mm/sec}$ or less with slight impact or vibration	1.5~2.0
When the reciprocating motion speed is $V=1000\text{mm/sec}$ or more with heavy impact or vibration	2.0~4.0