

The 5th generation Low-Friction-Torque Tapered Roller Bearing (LFT-V)

No.1 (※) performance & lightest in TRB-LFT series
by optimizing the shape of resin cage

(※) No.1: Performance comparison in JTEKT's TRB-LFT series

Friction torque

-60%

Bearing life in
contaminated oil

2times

Seizure resistance
at low temperature

2.2times

Temperature
rise

-15%

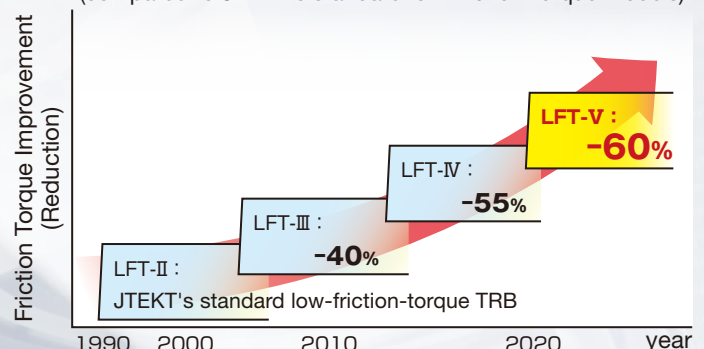
Lightweight

-5%

(compared to JTEKT's standard low-friction-torque models)



<Development of TRB-LFT series and comparison of friction torque>
(compared to JTEKT's standard low-friction-torque models)



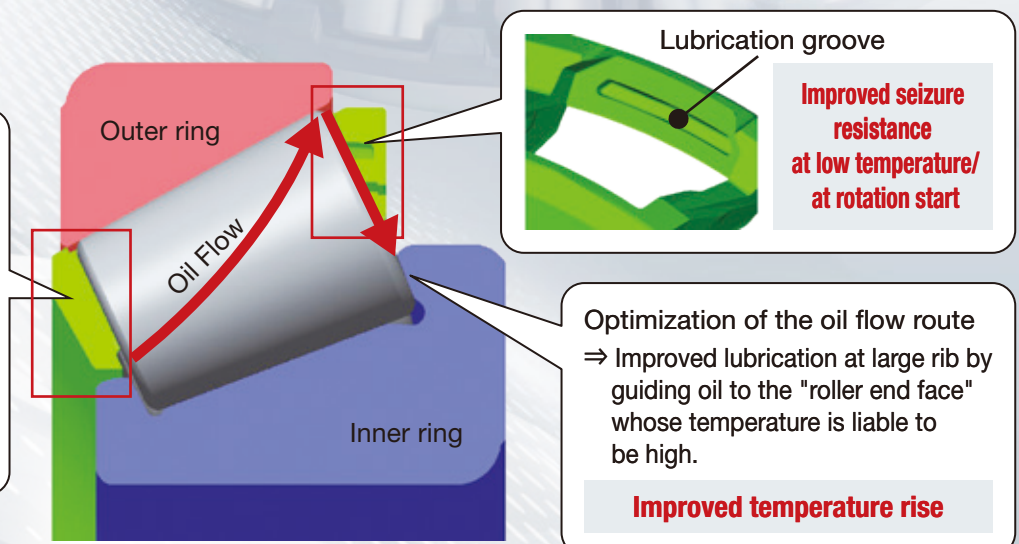
Features

● Optimized resin cage shape controls oil inflow and its route

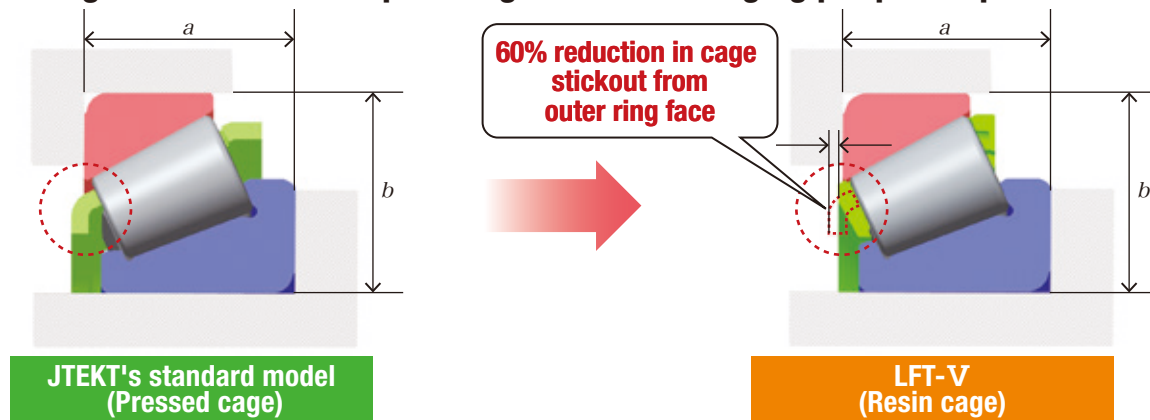
- Labyrinth structures between cage and inner ring and between cage and outer ring
- Optimization of cage face shape

⇒ Reduced oil inflow and contaminants infiltrating the bearing

**Improved friction torque
enables longer life**

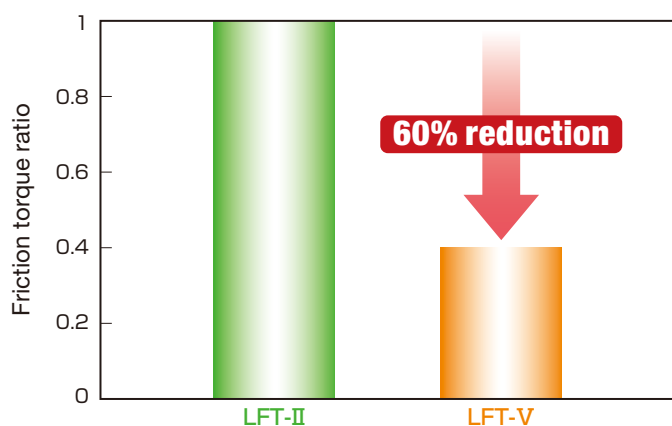


● Space-saving & low-friction-torque design without changing peripheral parts

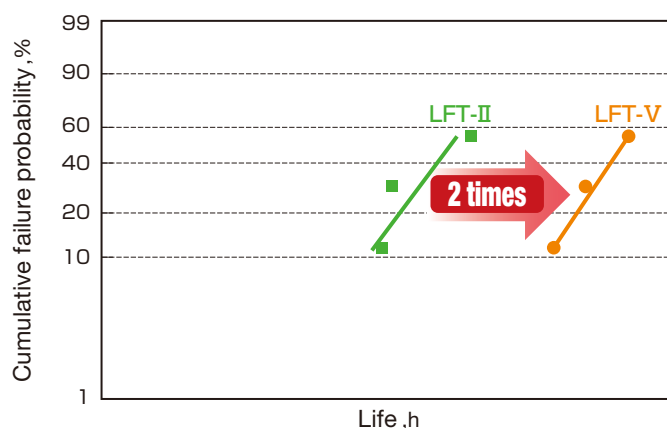


Performance

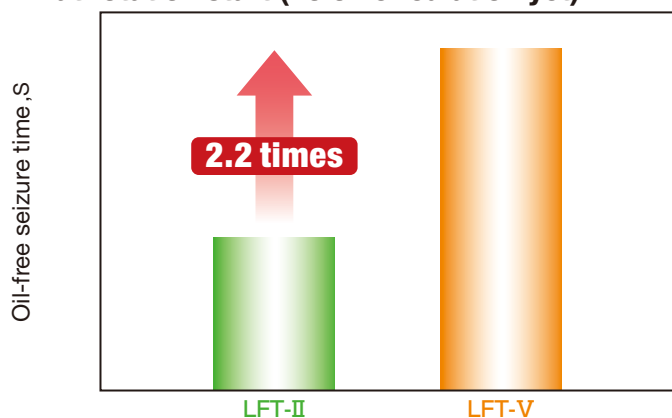
1 Friction torque



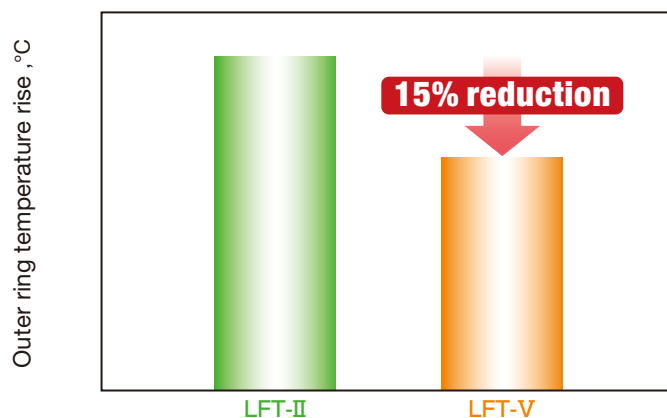
2 Bearing life in contaminated oil



3 Seizure resistance at low temperature / at rotation start (no oil circulation yet)



4 Temperature rise (with small amount of oil)



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