

Spherical Roller Bearings

TL Series

Excellent performance with high temperature equipment
High strength to prevent inner ring fractures
Tough and Long-life



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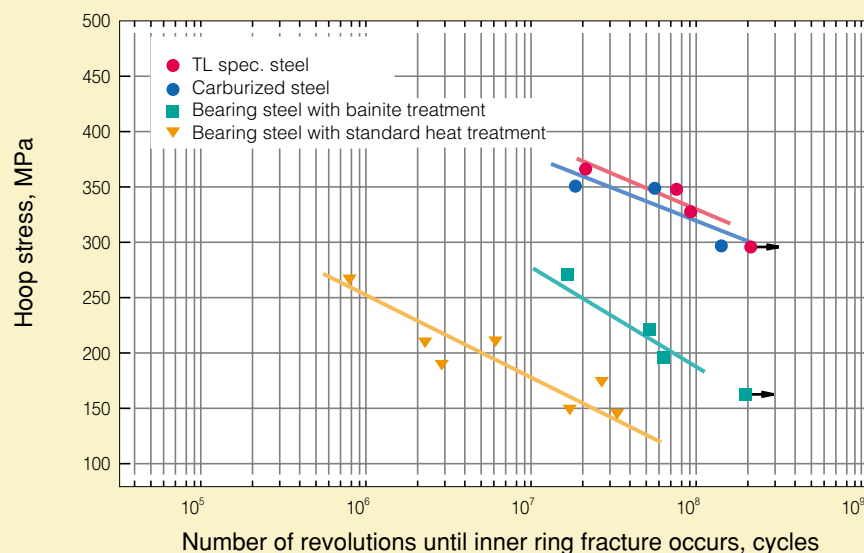
NSK has based its reputation on solving the most challenging industrial problems in ways that exceed customer expectations. Our innovative TL Series carries this tradition forward by providing outstanding performance under high temperature conditions.

High temperature processing and manufacturing environments, such as those found in paper making, are especially vulnerable to work stoppages due to inner ring fractures. TL (Tough & Long life) bearings significantly reduce this risk with superior resistance to inner ring fractures while providing extended life and excellent dimensional stability. For our customers, this means improved productivity and lower costs.

Feature 1 Improved inner ring strength

A special steel and heat treatment developed by NSK strengthens the inner ring against increasing hoop stress caused by rising shaft temperatures.

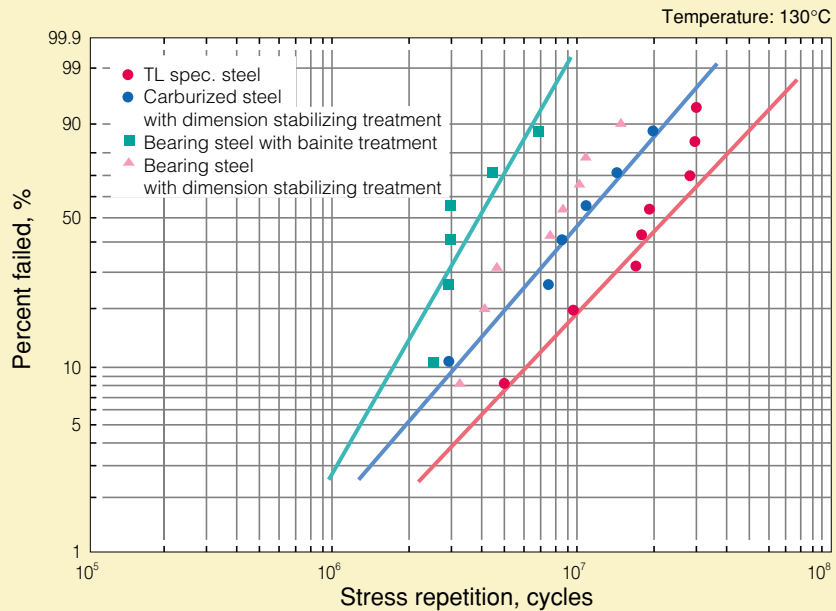
Results of inner ring fracture test



Feature 2 Long life

Increased hardness of raceway surface provides longer life when foreign debris is present than that of other bearings.

Results of rolling life test under high temperatures with foreign debris



Feature 3 Dimensional stability under high temperatures

Dimensional stability under high temperatures is adopted as a standard specification. (Max. 200°C)

Results of dimensional stability test

