

TMB Bearings: Lighter Weight and Longer Life



The automotive, agricultural, construction and electrical equipment industries demand greater compactness with less weight and reduced costs from ball bearings while extending bearing life. With improved performance of the machines in these industries, additional demands on bearings have resulted in their use at higher loads and speeds. All this must be accomplished without changing the configuration of the related parts. NTN addresses these challenges by manufacturing the Thermal Mechanical Ball Bearing (TMB).

The TMB ball bearing successfully proves an increase in performance while reducing costs in many applications, including transmissions, two-cycle engines, gear boxes, electric motors, alternators and lift trucks.

FEATURES & BENEFITS

heat treatment

optimum heat treatment for improved crack sensitivity

chromium steel

made with clean vacuum degassed high carbon chromium steel

contamination

especially beneficial under contaminated lubrication

power density

allows for a more compact design

many sizes

offered in small and medium sized ball bearings

NTN

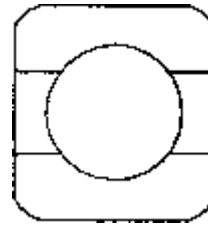
TMB Bearings: Lighter & Lasts Longer

- TMB Bearings provide improved life under increased horsepower ratings.
- The TMB200 series can be used in place of the standard 6300 series for a more compact machine design while providing lighter weight at reduced costs.
- The TMB series can replace the maximum capacity ball bearings (BL type) where cage and filling slot weaknesses may be a concern, while providing longer life at reduced costs.
- TMB Bearings increase bearing life 4-5 times when used with debris contaminated lubrication.
- TMB Bearings increase bearing life 2-3 times when used with clean lubrication.
- TMB Bearings are available with all the features of a standard bearing—seals, shields and clearances.

**Ask for NTN TMB Bearings
for your replacement needs!**

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Power Density: allows for a more compact design



6308



TMB208

Calculated L_{10} Life Comparison

NTN part number	d x Dx width (mm)	L_{10} LIFE (hrs)
6208	40 x 80 x 18	1,991
BL208	40 x 80 x 18	3,654
TMB208	40 x 80 x 18	4,379
6308	40 x 90 x 23	4,437

Test results: lubricant containing debris

