NACHi

Sealed Deep Groove Ball Bearings

NSE Seal





Triple Seal Lips
 U-Shape Seal Groove
 Breathing Mechanism *

(on seal O.D.)

Advanced Seal Design Provides Excellent Protection and Smooth Operation

The combination of a unique lip design and seal groove provides a labrinth and steady seal contact. Breathing mechanism avoids torque increases caused by internal pressure variation due to changes in operating temperatures. NSE seals allow NACHI bearings to have constant smooth operation and long service life.

Superior in Sealing Out Dust, Dirt, and Contamination
Superb Grease Retention Light Torque

The Best Components Yield the Greatest Bearing Performance

Rings and balls made of select material have superbly controlled accuracy such as roundness, contour, surface finish, and hardness to provide quieter operation, reduced vibration levels, and long life. Rivet-type pressed steel cages for strength and durability. High-performance grease for long life and low noise.

Note : * Non-breather type seals are available for applications in severe water contact environments or outer ring rotation.

Technical Information

Comparison Test Results

Nachi vs. Other Brands



of energy can be saved per bearing at 3,000 rpm.

NACHI NSE Seals showed the best performance for retaining grease and avoiding the entrance of dust in these conditions.

Offices

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CATALOG NO.: NAB 0502-1 July 2006

Shielded Deep Groove Ball Bearings

ZE Shield





ΝΛC

L-Shaped Shield Plate
 U-Shaped Seal Groove

Advanced Shield Design Provides Superior Protection and Quiet Operation

The shield design was optimized using finite element analysis and dynamic analysis modeling techniques. The design profile and plate thickness provides rigidity that helps quiet operation as well as retain grease and protect against intrusion of major contamination.

Superior in Sealing Out Contamination
 Superb Grease Retention
 Quiet Operation

The Best Components Yield the Greatest Bearing Performance

Rings and balls made of select material have superbly controlled accuracy such as roundness, contour, surface finish, and hardness to provide quieter operation, reduced vibration levels, and long life. Rivet-type pressed steel cages for strength and durability. High-performance grease for long life and low noise.

Technical Information

Comparison Test Results

Nachi vs. Other Brands



Tested Bearing: 6203ZZE Inner Ring Rotation, No Load Ambient Temperature = 80 °C Test Duration = 20 hours

NACHI ZE shield showed the best performance for retaining grease under both conditions.

Design Comparison







Brand B Z

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CATALOG NO.: NAB 0601-0 February 2006

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