

# Deep Groove Ball Bearings



- Longest Life Designs
- Premium Material
- Optimally Controlled Accuracy
- Low Torque & Low Noise
- Higher Performance & Reliability



### "NSE" Rubber Seal

- U-shaped seal groove
- Triple seal lips
- Low torque
- Quiet operation
- Superb grease retention
- High performance grease
- Superior sealing

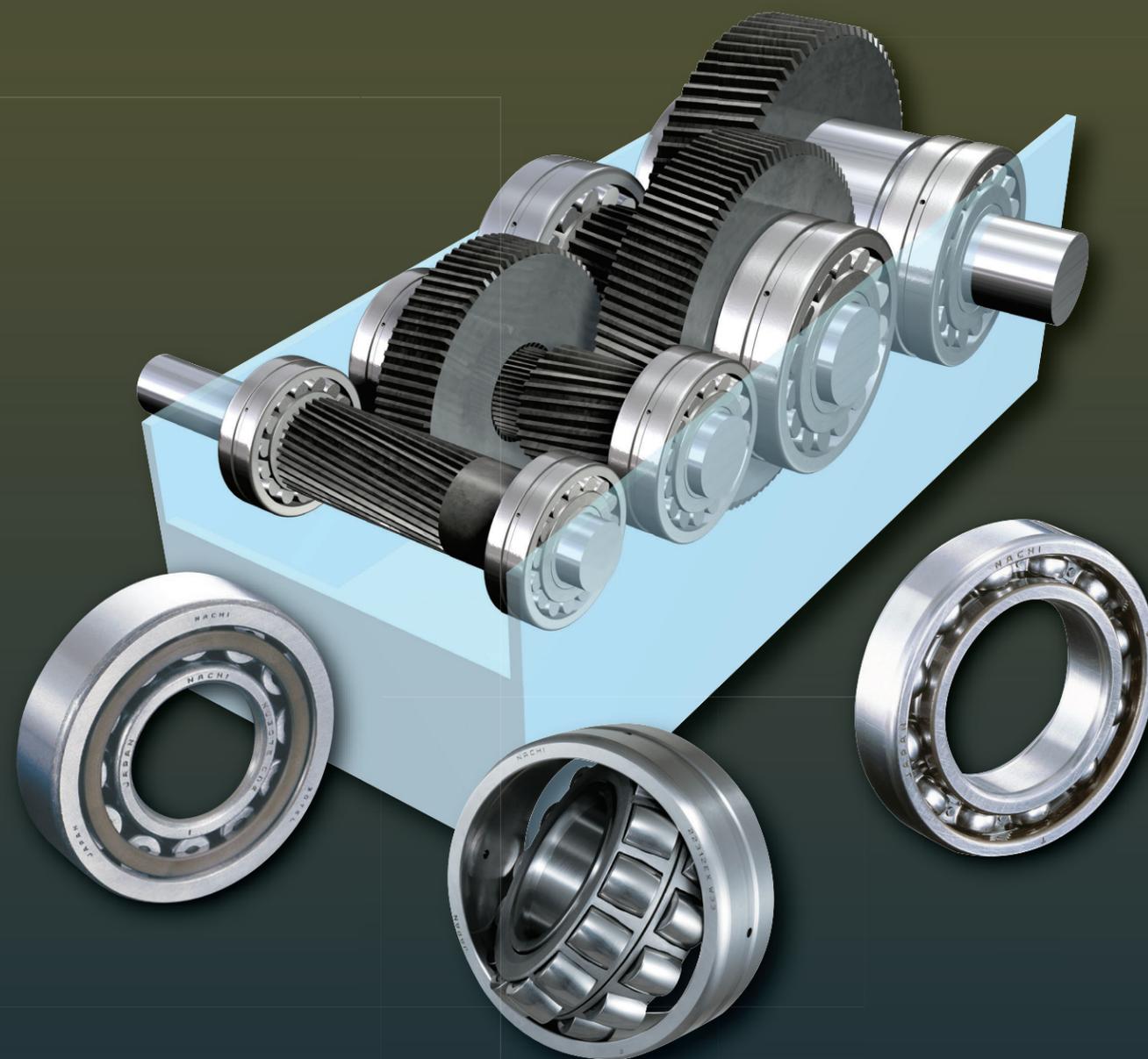


### "ZE" Metallic Shield

- U-shaped seal groove
- L-shaped shield
- Low torque
- Quiet operation
- Superior protection
- High performance grease
- Superior grease retention

# BEARINGS FOR GEAR BOX APPLICATIONS

## Ball & Roller Bearings



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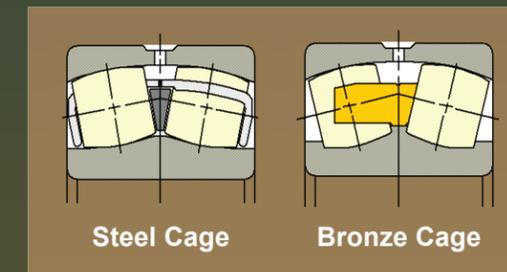
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## Spherical Roller Bearings



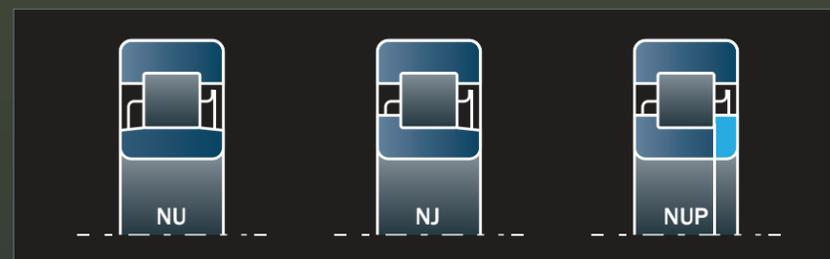
- Highest Capacity - Longest Life
- Heat Stabilized Components to 200° C (392°F) Operation
- Steel & Bronze Cage



## Cylindrical Roller Bearings



- Less Heat Generation
- High Reliability
- Steel, Polyamide & Brass Cage



### High Capacity & High Reliability

Nachi has maximized load capacity for the same standard boundary dimensions by adopting an optimum design of roller with larger diameters and increased length.

### Low Operating Temperature & Long Life

Conventional or Extra Capacity Designs are available in several configurations. Generally cylindrical roller bearings are used for radial loads and as expansion bearings, however, some configurations will accept thrust loads.

## Cross Section

### Roller

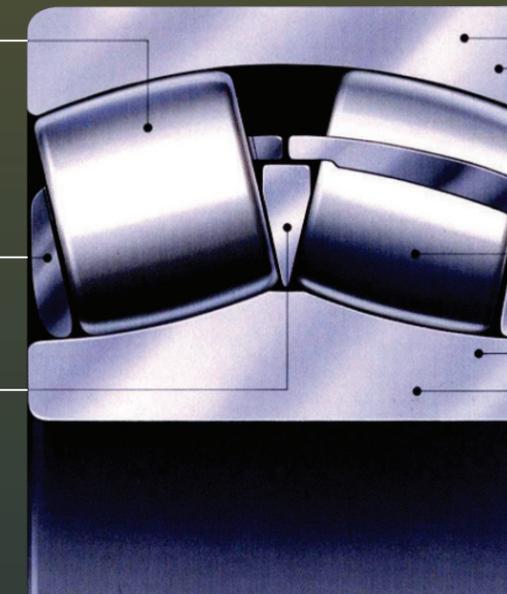
Increased roller diameter for long life.

### Cage

Employed steel sheet material for secure heat resistance and optimal lubricant flow.

### Guide Ring

Improved roller guidance to decrease roller skew.



### Outer Ring

Special heat treatment where thermal distortion does not occur at temperatures up to 200° C.

### Outer Ring, Inner Ring, Roller

Improved bearing contact section for smooth contact, resulting in long life.

### Inner Ring

Special heat treatment where thermal distortion does not occur at temperatures up to 200° C.

## Highest Load Capacity in the World => Longer Bearing Life

Maximizing the internal bearing design, and utilizing the cleanest bearing steels, yields the highest possible dynamic load capacity design, which in turn provides for this dramatic increase in bearing life.

## The Best Components Yield the Greatest Bearing Performance

Rings and rollers 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. Steel cages for high temperature capability and better chemical resistance to most lubricants. Steel guide ring for better roller guidance and minimal skewing.