

White Paper



Types of Noise related Irregularities, Possible Causes & Measures

1. Loud Metallic sound

Possible Cause :

- Abnormal load
- Incorrect mounting
- Insufficient or improper lubricant
- Contact of rotating parts

Measures :

- Improve the fit, internal clearances, preload, position of housing shoulder etc.
- Improve the machining accuracy and alignment of shaft and housing accuracy of mounting method
- Replenish the lubricant or select another lubricant
- Modify the seal etc.

2. Louder Regular Sound

Possible Cause :

- Flaws, corrossions, or scratches on raceways
- Brinelling
- Flaking on raceway

Measures :

- Replace or clean the bearing, improve seals and use clean lubricant
- Replace the bearing and use care handling bearings
- Replace the bearing

3. Irregular sound

Possible Cause :

- Excessive clearances
- Penetration of foreign particles
- Flaws or flaking on balls
- Improve the fit, clearance and preload

Measures :

- Replace or clean the bearing, improve the seal and use clean lubricant
- Replace bearing