

<u>Sound</u>	Other Indicators	<u>Causes</u>
Hiss	Small Bearings	Raceway, ball or roller surfaces are rough
Buzz to Roar	Loudness and pitch change with speed	Resonation
		Poor fit
		Bearing rings deformed
		Vibration of raceways, balls or rollers
		Brinelling
Crunch	Felt when bearing is rotated by hand	Scoring of raceway surfaces
		Scoring of balls or rollers
		Dust/Contamination
Hum	Disappears when power supply is shut off	Electromagnetic sound of motor
Clatter	Noticeable at low speeds, continous at high speeds	Bumping in cage pockets due to insufficient lubricant
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Screech/Howl	Occurs mainly on Cylindrical Roller bearings	Large radial clearance. Poor lubrication
	Sound changes with speed.	
	Goes away temporarily with lubrication.	
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Squeak	Metal to Metal spalling sound. High pitch	Small clearance.
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Squeal	Generated irregularly due to grating	Slipping of fitting surfaces
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Rustle	Sound quality remains the same even if speed changes	Dirt or raceways, ball or roller surfaces are rough
Growl	Continous at high speeds	Scoring on raceway, balls or rollers
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Quiet fizz or pop	Generated irregularly on small bearings	Bursting sound of bubbles in grease
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Large sound pressure	Large sound pressure	Rough raceway, roller or ball surfaces
	- O	Raceways, rollers or balls deformed by wear
		Large internal clearance due to wear