



ROLLING ELEMENT BEARING FAILURE MODES

Rolling element bearings are subject to a wide range of failure modes. The most common failure mode is fatigue, which is caused by the repeated loading and unloading of the bearing surfaces. Other failure modes include corrosion, misalignment, and lubrication failure.

Rolling element bearings can be classified into two main types: deep groove ball bearings and tapered roller bearings. Each type has its own set of failure modes and symptoms.

Rolling element bearings can be inspected visually for signs of failure. Common signs include discoloration, pitting, and scoring. More advanced inspection techniques, such as vibration analysis, can also be used to detect bearing failure.

Rolling element bearings should be replaced when they show signs of failure. It is important to replace the bearing as soon as possible to avoid further damage to the machine.

Rolling element bearings should be replaced with the same type and size of bearing. It is also important to ensure that the new bearing is properly lubricated and aligned.

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CHIPPED / BROKEN GEAR TEETH

Chipped or broken gear teeth can cause significant damage to the gear and the machine. It is important to inspect the gear regularly for signs of wear and damage.

Chipped or broken gear teeth can be caused by a variety of factors, including fatigue, misalignment, and lubrication failure. It is important to identify the cause of the damage and take steps to prevent it from recurring.

Chipped or broken gear teeth can be inspected visually for signs of damage. Common signs include chipping, cracking, and pitting. More advanced inspection techniques, such as vibration analysis, can also be used to detect gear damage.

Chipped or broken gear teeth should be replaced as soon as possible. It is important to replace the gear with the same type and size of gear. It is also important to ensure that the new gear is properly lubricated and aligned.

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BLADE / VANE PASS

Blade or vane passes are a common type of vibration signature. They are caused by the periodic loading and unloading of the blades or vanes as they rotate.

Blade or vane passes can be identified by their characteristic frequency. The frequency is equal to the number of blades or vanes multiplied by the rotational speed of the machine.

Blade or vane passes can be inspected visually for signs of damage. Common signs include cracking, pitting, and scoring. More advanced inspection techniques, such as vibration analysis, can also be used to detect blade or vane damage.

Blade or vane passes should be replaced as soon as possible. It is important to replace the blades or vanes with the same type and size of blades or vanes. It is also important to ensure that the new blades or vanes are properly lubricated and aligned.

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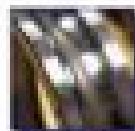
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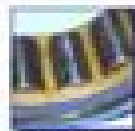
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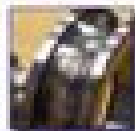
Recognising Bearing Defects



Spalling / Pitting



Worn, Scoring Pits



Sealing / Fatigue



Overload / Load



Defect	Location	Frequency	Amplitude
Spalling / Pitting	Outer Race	1x RPM	High
Worn, Scoring Pits	Inner Race	1x RPM	High
Sealing / Fatigue	Roller	1x RPM	High
Overload / Load	Outer Race	1x RPM	High



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web include the earthing resistance and the minimum size of the earthing conductor which can be calculated using various methods as part of the design methodology lim s c and al shawesh y 35 proposed a systematic step by step approach for the design of reliable and effective earthing systems for low voltage

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web various types of earthing are mentioned below plate earthing pipe earthing strip earthing plate earthing the most efficient way of earthing is plate earthing which involves installing a galvanized copper plate 3m deep in

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web plate earthing fig 3 plate earthing for this form of earthing a plate composed of copper or galvanized iron is placed vertically in the ground pit less than three meters above the ground for a more effective electrical grounding system one must maintain the earth's moisture condition surrounding the plate earthing system

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web sep 22 2022 if a copper or an iron plate is used as an earth electrode then this system of earthing is called plate earthing in pakistan both copper as well as iron type earthing plates are used copperplate tends to be 2 feet long 2 feet wide and 1/8 inches thick 600 x 600 x 3 millimeters whereas the size of the iron plate is 2 feet x 2 feet x 1/4 millimeter

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web the effectiveness of the plate earthing is based on the types of soil and also depends on how much is deep inside the earth pit the earth for the effectiveness of the plate earthing diagram also depends on the shape and size of the plate like diameter length

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