Insulated Bearing for Wind Turbines

This insulated bearing is designed for wind turbine applications. It provides electrical insulation between the inner and outer rings to protect against damage from stray currents.

Product Overview

Insulated Bearings for High-Demand Applications

Insulated bearings are specialized components designed to prevent electrical current from passing through, effectively protecting equipment from electrical flashover damage. Featuring a ceramic coating on the surface with thicknesses ranging from 50 to 200 μm, these bearings provide robust electrical insulation. They are engineered to resist voltages up to 1000V and beyond, ensuring reliable operation in high-power motor environments such as wind turbines and heavy machinery.

Technical Specifications

Voltage Resistance

1000 V	1000 V+
Standard Resistance	High Voltage Discharge Capability

Insulation Type

Inner Ring Insulation • Outer Ring Insulation • Ceramic Coating

Ceramic Coating Thickness	50-200 μm

Application Fields

Power Industry

- Wind turbines
- Hydro-generators
- Thermal generators

Industrial & Heavy Machinery

Industry	Equipment Usage
Railway	Locomotives
Metallurgy	Cranes, textile machines, printing machines, iron/steel-making equipment
Mining	Coal preparation/washing machines, crushers, ball mills, grinders
Petrochemical	High-power explosion-proof motors, compressors, pumps