

Insulated bearings for wind turbine generators

What type of bearings are available for wind turbines?

Malloy Wind offers insulated coating and ceramic hybrid bearing options for many wind turbine generators. The CB1 retrofit for GE 1.5 turbines includes everything needed to make a bearings replacement. Malloy Wind works with the top manufacturers in the business.

Why should you choose NTN Bearings for your wind turbine?

Wind turbine technology continues to demand increased efficiency, reliability and longer service life of equipment. Innovative bearing designs from NTN are instrumental in these improvements and in spreading the use of wind technology for electrical power generation.

Why do wind turbines need a bearing?

They have numerous clearance and tolerance classes available for different operating conditions and are ideal for wind turbines because they can withstand very high rotating speeds. Electricity can corrode many materials, reducing the reliability of bearings over time.

What causes a wind turbine bearing to fail?

Electric pitting is a common cause of bearing failures in wind turbine generators due to stray electrical currents. Insulated ceramic bearings eliminate electrolytic corrosion (commonly called fluting) and extend bearing life. converts rotational energy into electrical energy.)

What are rolling elements in insulated ceramic bearings?

Rolling elements in insulated ceramic bearings are made from silicon nitride ceramic (Si_3N_4) JTEKT was the first company in the world to develop and install insulated hybrid ceramic bearings in Wind Turbines. The use of hybrid ceramic bearings contributes to the reduction of maintenance costs and improves operating efficiency.

Why should you choose NTN Bearings?

Innovative bearing designs from NTN are instrumental in these improvements and in spreading the use of wind technology for electrical power generation. Our products are built with three concepts in mind: harmony with the natural environment, improved energy conservation and contribution to international society.



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