

MADE BY GERMANY TECH

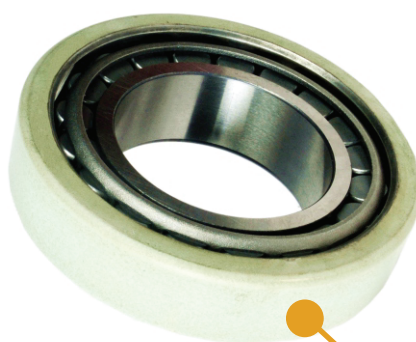
01 Current Insulated Bearings

When a stray current in an electric motor uses a bearing as its path to ground, bearing damage can occur. The **electric current passing can cause micro cratering** in the raceways of inner & outer rings and on the rolling element surface which ultimately changes the . structure of the metal

Once bearing damage from **electric corrosion** has begun, increased noise levels, reduced effectiveness of lubricant and excessive vibration will **drastically decrease** . bearing service life

Electric corrosion causes & increased noise levels vibration and reduced effectiveness of lubricant drastically decreasing - . bearing service life

The image below is a microphoto of damage resulting from electrical discharges



"INSUCOAT"

To overcome this problem UST engineers have developed in collaboration with a university a **special ceramic coating which ensures 100% protection and electric insulation**. The coating is applied using a "plasma spraying technology" from Europe

Sophisticated pre and post application processes yield outstanding coating quality. which . wear resistant

The coating can be applied on the inner or outer ring depending . upon the application

The insulation has a guaranteed breakdown resistance for at least 1000V in standard. For higher resistance as well R&D team has developed a special coating to ensure insulation upto 3000V

UST has collaborated to develop a special ceramic coating using a European "plasma spraying technology" which ensures 100% protection and electric insulation



:Typical Application

Tractionmotor of Railway •
vehicles
(Electricmotors(AC/DC •
(Generators(wind power •

For any other details on current insulated bearings or other technical queries feel free to reach our team on
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