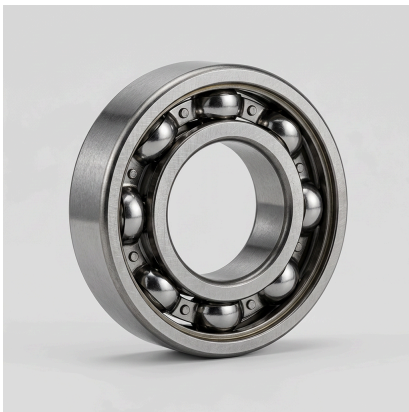


DETECTION OF MAGNETIC IMPURITIES FOR QUALITY MONITORING OF BEARINGS

Residual magnetism in bearings attracts particles, causing wear or failure. MAGNETOSCOP reliably detects magnetic hotspots down to 1 μT .



THE CHALLENGE

Residual magnetic remanence in bearings can attract metallic particles, leading to abrasion, damage and potential equipment failure. Remanence may originate from magnetizable base materials, manufacturing processes or adhered ferromagnetic impurities. Even low field strengths in the millitesla range can be critical, making reliable in-house magnetic inspection essential.

THE SOLUTION

Magnetic remanence testing is carried out using the MAGNETOSCOP with temperature-compensated Hall probes. The system covers a measuring range from 1 μT to 50 mT and enables detection of localized magnetic hotspots on bearing surfaces. Transversal or axial probes are selected depending on component geometry and inspection requirements.



THE RESULT

The solution enables precise identification of residual magnetic fields before and after demagnetization. Early detection of magnetic anomalies reduces the risk of particle adhesion, wear and premature failure. Reliable remanence monitoring supports compliance with industry limits such as 0.25 mT and ensures stable bearing performance in demanding applications.

THE PRODUCTS

MAGNETOSCOPI

Portable Solution For Magnetic Field and Permeability Measurement



foerstergroup.com



The FOERSTER Group is represented by subsidiaries and representatives in over 60 countries worldwide. You can find a complete overview on our website.

Headquarters

Institut Dr. Foerster GmbH & Co. KG

In Laisen 70
72766 Reutlingen
Germany

+49 7121 140 0
info@foerstergroup.com