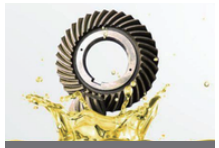
PJ500 Thistle Tube Ferrospectrometer

高稳定 高性能 尺寸紧凑

APPLICATION FIELD


Machine System Wear Monitoring".


Machine System Lubricant Evaluation


Gearbox Ferrous Wear Debris Assessment


Residual Evaluation of Bearing Oil Lamp

TECHNICAL INDICATORS

- The particle inspection range of the Ferrograph Analyzer is 0-800μm.
- The sample introduction method is manual, where the sample is injected into a capillary tube of the thimble type and drips under the influence of gravity.
- Sample injection flow rate: 0.4 ml/min.
- Oil sample analysis: 2-3 ml.
- Magnetic field: Maximum magnetic flux density ≈1.5T, maximum magnetic field gradient >0.5T/cm.
- Optimized permanent magnet design for magnetic separation, high gradient magnetic field ensures the orderly arrangement of ferromagnetic wear particles.
- The cleaning method is automatic and can be scheduled.
- Cleaning speed adjustment: adjustable.
- Ferrogram size: 60×24×0.17 mm.
- Display screen size: 3.5" TFT.
- Size: 340mm × 300mm × 430mm (length × width × height).
- Weight: 9.6 Kg.
- Operating temperature: 18-35°C.
- Power supply voltage: AC 220V ±10%, 50Hz.

PERFORMANCE CHARACTERISTICS

- Meets the ASTM D7690 standard for ferrographic examination of wear particles, the ASTM D7684 standard for micrographic characteristics of used lubricants, and the SH/T 0573-1993 method for wear particle testing in used lubricating oils.
- Efficiently separate wear particles and contaminant particles from oil samples.
- The ferrography process will not cause deformation of the wear particles.
- High magnetic field gradient ensures the orderly arrangement of ferromagnetic wear particles, preventing aggregation.
- Providing a reference ferrogram library to accurately determine the wear fault location and cause.
- The requirement for solvents is minimal, and there is no need for external compressed air.
- The design concept of volatile cleaning agents into the air ensures the health of personnel.;
- One-click rotating design allows for quick replacement of glass thimbles, facilitating maintenance, cleaning, and servicing.
- Streamlined exterior design and exquisite combination structure, with an overall clean and generous appearance.
- Brand new high-performance, low-power core with enhanced electromagnetic interference resistance.
- The speed of ferrography can be adjusted, which can effectively improve the success rate of ferrography.
- Instrument positioning device, capable of adjusting the distance from the oil delivery tube to the ferrogram substrate, ensuring consistent oil sample entry conditions and improving the reproducibility of ferrogram preparation.
- Portable and suitable for working in outdoor environments.
- Ferrographic analysis has a wide size inspection range and simultaneously obtains various information about wear particles.
- Detection content: Wear particle concentration and size; Wear particle morphology (cause and mechanism of wear particle generation); Wear particle composition (location of wear particle generation).