

YK-A1503 Analytical Ferrograph



The YK-A1503 Analytical Ferrograph enables the diagnosis and monitoring of wear conditions in mechanical equipment during operation, thereby enhancing system reliability and safety. The analytical ferrograph manufactured by our company has established a benchmark for equipment diagnostics; fully compliant with the SHT0573 standard test method for "Wear Particle Analysis of In-Service Lubricating Oils (Analytical Ferrography)," it is widely utilized in oil analysis laboratories across the globe.

Applicable Standards:

ASTM D7690 、 ASTM 7684、 SH/T 0573

Instrument Features:

1. The detection method and accuracy comply with ASTM D7690, ASTM D7684, and SH/T 0573 testing standards.
2. The moisture content in the oil has virtually no impact on the preparation of the spectrographic slide.
3. Once the oil sample is prepared and inserted, the instrument operates automatically, allowing the operator to attend to other tasks.
4. Convenient push-button operation.
5. Adjustable control of the sample flow rate ensures consistent slide deposition and repeatability.
6. Capable of simultaneously preparing two spectrographic slides in less than 20 minutes.
7. The slides are transparent, enabling the differentiation of metallic, organic, and non-metallic particles, thereby facilitating easier diagnosis.
8. Particles are arranged according to their magnetic susceptibility and size, allowing for rapid analysis.
9. Particle agglomeration rarely occurs, which facilitates clear observation.

Technical Specifications:

- **Display:** 10.1-inch LCD Touchscreen
- **Power Supply:** AC 220V, 50Hz
- **Wear Particle Measurement Range:** 0 μm – 800 μm
- **Sample Introduction Method:** Micro-pump pneumatic type; automatic sampling
- **Cleaning Method:** Dual modes: Automatic and Manual



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- **Magnetic Field:** Max. Magnetic Flux Density: 1.8 T (± 0.1 T); Max. Magnetic Field Gradient: >0.5 T/mm
- **Ferrogram Channel:** Dual-channel simultaneous ferrogram generation
- **Ferrogram Slide Tilt Angle:** $1^\circ - 5^\circ$
- **Oil Sample Delivery Speed:** Flow rate range: 10 – 30 mL/h (adjustable)
- **Cleaning Agent Flow Rate:** Adjustable; Max. flow rate: >100 mL/h
- **Measurement Resolution:** $1 \mu\text{m}$
- **Sample Volume per Analysis:** 1 mL
- **Oil Delivery Tubing Dimensions:** Outer Diameter: 2.6 mm; Inner Diameter: 1.8 mm
- **Ferrogram Slide Dimensions:** $60 \text{ mm} \times 24 \text{ mm} \times 0.17 \text{ mm}$
- **Dimensions:** $395 \text{ mm} \times 355 \text{ mm} \times 335 \text{ mm}$
- **Weight:** Approx. 14 kg