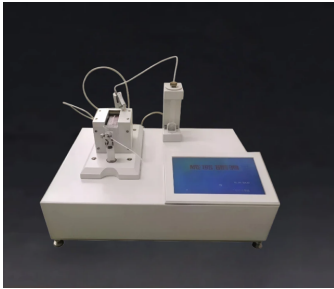


HF-TC-642

Ferrography Instrument



This Ferrography Instrument separates metallic wear particles from lubricating oil by magnetic force and arranges particles on substrates by size. It analyzes particle features to monitor mechanical wear and provide early warning of abnormal equipment operation.

Key features

- Equipped with an 8-inch industrial high-definition touch screen for easy operation.
- Adjustable flow rates for oil sample and cleaning liquid to meet diverse analysis requirements.
- Independent dual-pump system for oil sample and cleaning liquid to reduce failure risks.
- Enclosure constructed from 2 mm steel plate for robust stability; fitted with leveling feet to meet experimental standards.
- Samarium-cobalt permanent magnet material ensures long-term stable magnetic force.

Technical specifications

Parameter	Value
Magnetic Field	Maximum magnetic flux density at gap center >1.0 T
Maximum Magnetic Gradient	>5.0 T/cm
Pumping System	Speed adjustable from 1 to 100 grades
Oil Sample Flow Rate	0.16 ~ 2.5 mL/min; Fast mode: >100 mL/min
Cleaning Liquid Flow Rate	0.16 ~ 5.0 mL/min; Fast mode: >100 mL/min
Ferrograph Substrate Size	0.17×24×60 mm
Substrate Installation Angle	2°, 3°, 4° (stepped adjustable)
Timer Range	0 ~ 99 minutes (audible alarm available)
Power Supply	AC220V, 50Hz
Overall Dimensions	400mm×300mm×300mm
Power Consumption	500 W
Weight	15 kg

Standard scope of supply

No.	Item	Qty	Notes
1	Ferrography Instrument Main Unit	1 Set	HF-TC-642 analytical ferrograph
2	Power Cable	1 Piece	AC220V
3	Ferrograph Substrates	50 Pcs	0.17×24×60 mm
4	250mL Cleaning Bottle (GL45)	2 Pcs	With anti-overflow function
5	Connecting Tubing & Fittings	1 Set	Pipeline accessories
6	Leveling Feet	4 Pcs	For horizontal adjustment
7	Operation Manual (Chinese & English)	1 Copy	
8	Factory Calibration Certificate	1 Copy	
9	Shockproof Foam & Export Carton	1 Set	Transportation package

Compliance and documents

Applicable standards	[TO BE CONFIRMED] standard applied to this model
Calibration certificate	[TO BE CONFIRMED]
Optional accessories	[TO BE CONFIRMED]

Warranty and support

12-month warranty on every exported instrument. English operation manual and remote video guidance at commissioning. T/T, L/C at sight and deposit terms for bulk orders; sea, air or rail shipping.