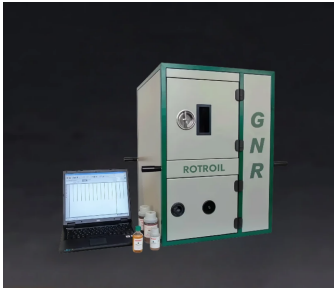


HF-TC-643

Oil Spectrometer



This Oil Spectrometer accurately measures multiple element concentrations in lubricating oil and hydraulic oil. It monitors component abrasive wear and identifies oil contamination, supporting scientific equipment condition assessment and maintenance decision-making.

Key features

- Analyze 24 elements including Fe, Al, Cr, Ag, Cu, Ni, Pb, Sn, Ca, Mg, Si, Ti, Na, Sb, V, B, Ba, Mo, Zn, P, Cd, Mn, K, Li; expandable up to 32 elements.
- The repeatability and accuracy of test results meet ASTM D6595 standards.
- Complete quantitative analysis of all elements within 30 seconds, generate data reports and support result printing.
- No sample pretreatment required; samples can be directly tested after sampling.
- Control software runs on Windows OS to fully automate the test process.

Technical specifications

Parameter	Value
Measuring range	Zn, P, Ba, Si: 0-6000 ppm; other elements: 0-1000 ppm.
Main Power Supply	220V AC / 50Hz
Power Consumption	500W
Dimensions	86 × 73 × 45 cm
Weight	~85 kg
Working Principle	Rotating disc electrode spark OES complying with ASTM D6595, equipped with rotary disc sample feeding device and built-in automatic electrode sharpener
Focal Length	500 mm
Spectral Range	210 ~ 600 nm (190 ~ 800 nm)
Data Acquisition System	Single integrator GNR data acquisition system based on 32-bit AD DSA microprocessor, controlled by built-in computer

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.