

PA100 Double Analytical Ferrospectrometer



FEATURES & BENEFITS

- The test method and accuracy meet ASTM D7690 and SH/T0573 test standards
- The moisture in the oil has little effect on the preparation of the spectrum
- Once the oil sample is ready and inserted, the operation can be automated and the operator can do other work
- Easy button operation
- The sample flow rate can be adjusted to ensure consistent deposition and repeatability
- Make 2 pieces of music simultaneously in less than 20 minutes
- The spectrum is transparent, allowing the distinction between metallic, organic and non-metallic particles, making diagnosis easier
- The particles are arranged according to their magnetic susceptibility and size to facilitate rapid interpretation of the particles
- Particle accumulation rarely occurs, making it easy to observe particles that are important to reflect the state of the machine

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APPLICATION FIELD



MAIN TECHNICAL INDICATORS

■ Data parameters of PA100 double analysis ferrospectrometer

Project	Data
Two pieces can be made automatically or semi-automatically at the same time	
Magnetic field	The maximum magnetic flux density is $\approx 1.5T$
Maximum magnetic field gradient	$> 0.5T/mm$
Oil sample transport	Flow range 10-30ml/h
Oil delivery pipe size	Outer diameter 2.6mm, inner diameter 1.8mm
Ferroglyph inclination	1-5°
Ferroglyphic substrate size	60mm×24mm×0.17mm (length * width * height)

■ Metallographic microscope data parameters

Project	Data
Optical system	Infinitely distant system
Eyeiece	Large field of view eyepiece EW10×/22, mirror length $\Phi 30$ 10×/0.25/∞/-(BF/DF) WD 10.0mm 20×/0.4/∞/0(BF/DF) WD 4.30mm
Flat field achromatic objective at infinity	5×/0.12/∞/-(BF/DF) WD 12mm 50×/0.75/∞/0 WD 0.32 mm 100×/0.8/∞/0(BF/DF) WD 2mm
Viewing head	Hinged triocular viewing head, 30° tilt, pupil distance 48-75mm
Maximum specimen height	50mm
Reflection illumination	24V/100W halogen lamp (pre-centering) with adjustable brightness Kohler lighting system, aspherical light collector Blue, green and yellow filters and frosted glass Pendulum condenser NA0.9/0.25
Transmission lighting system	24V/100W halogen lamp, aspherical light collector Blue filter
Focusing system	Coarse-motion coaxial focusing, fine tuning cell value 1 μ m, coarse-motion elastic adjustment, with limiting device
Convertor	Five-hole convertor