Energy Dispersion X-ray Fluorescence Spectrometer TRXS-601

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Overview

Energy Dispersion X-ray Fluorescence Spectrometer TRXS-601after being completely filtered by the optical filter, the original X-ray produced by the X-ray tube and exposed at a high voltage on the sample. It can do qualitative, quantitative, and no sample analysis. Almost all of the elements can be accurately analyzed. The types of elements contained in the sample have been qualitatively analyzed by the position and shape of the spectral peak. Filters are automatically selected and converted. It does not require operators to set multiple test parameters, with a historical query function and test data is automatically saved.

Features:

- One of the key indices used to measure the performance of an energy dispersive XRF spectrometer is the detector resolution
- The X-ray tube can be shielded in full range, leaving only the side window for the X-ray outlet, which has specifically been treated with an embedded lead within
- For high voltage, insulation and cooling, capillary oil can be utilized with a 0.005-inch Beryllium window, rated consumption power of 50W, and rated power of 50kV
- Designed to last more than 5000 hours in service
- Filters are selected and transformed automatically
- The radiation-protected system, low-radiation ray tube, newly built and thoroughly treated
- Design of a double-shielded lead plate that is completely enclosed
- low-radiation x-ray tube that has been properly treated
- The design features a double-shielded lead plate that is completely contained
- Filtering device for lead plates that is self-contained. X-ray interrupters employed in the event of an unexpected cover opening
- Testing for delays as well as an X-ray warning system
- The workstation has analytical software installed. One-touch operation is easy and simple to use
- Ergonomic human-machine interaction
- It offers a sophisticated customizable report mechanism that eliminates the need for operators to set various test settings
- Test data is automatically preserved when using a history query method
- Methods of qualitative and quantitative analysis that are cutting-edge Hundreds of elements can be analyzed at once

Specifications :

Adc	2048 channels
Analysis Principle	Energy-dispersive X-ray fluorescence analysis
Analysis Time	30 to 900seconds, adjustable
Channels	2048
Constant Cooling Control	400 VDC
Current Variation	0 to rated power
Detector	Si-PIN or SDD detector, high-speed pulse height analysis system
Element Measuring Range	Any element from Na(11)-U(92)
Filter	6 filters
High Voltage Generator	Special HV generator for X fluorescence
Input	85 to 265VAC,47 to 63 Hz
Minimum Measuring Limit	Cd/Hg/Br/Cr/Pb?2 ppm
Sample Exposure Diameter	2, 5, 8 mm
Sample Observation	200×color CCD camera
Sample Shape	Arbitrary size, any irregular shape
Sample Type	Plastic/metal/film/powder/liquid etc.
SDD Detector	145 eV, > 1000/S, > 15 mm2, 0.025 mm, 1.2 W
Stability	0.05%/8 h
System Power Control	+5 VDC at 250 mA (1.2 W)
Temperature Variation	voltage or current setting
Voltage Variation	0.0001
Working Environment	Temperature 10 to 35 ?C Humidity 30 to 70% RH
X-Ray Tube	Mo, 5 to 50 KV, 1 to 1000 A

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