

Multi Sample Spin Energy Dispersive X-ray Fluorescence Spectrometer



Introduction:

The X-ray fluorescence spectrometers specializes in providing the professional and reliable X-ray fluorescence (XRF) chemical composition analysis solutions for the industries such as glass, refractory materials, metal and non-metallic mining, steel, non-ferrous smelting, ferroalloys, cement, coatings, petrochemical, archaeological identification, solid waste fly ash, rock wool, etc.

Features:

- * Determination of elements: fluorine (F) - uranium (U) elements in the periodic table.
- * Content range: ppm-100%.
- * Sample morphology: Samples that can be directly detected, including solids, liquids, and powders.
- * Detector: The detector of electric refrigeration FASTSDD with 1μm ultra-thin carbon window. In this device, the signal acquisition intensity of light elements is equipped. In addition, the carbon fiber protective net is specially designed and installed on the detector to prevent the irreversible damage to the detector caused by the vacuum bursting of the sample.
- * Ray tube: Imported high-power end window ray tubes are equipped to ensure the testing effect of light elements.
- * Operation characteristics: Various types of intelligent robots are used for the automatic sample injection. 28+1 samples can be placed simultaneously in the fully automatic switch sample cover for the sequential testing; In addition, the emergency samples can be urgently inserted. With the 'simple and efficient' product design, this product can free the hands of the customers.
- * The sample is a spinning style, with a larger detection area. In addition, the tested samples are more representative and with better stability.
- * Temperature control: The adaptive constant temperature control system.
- * Safety performance: labyrinth design; As far as X-ray generation is concerned, the lead shielding and interlocking design are adopted.
- * The analysis speed of this product is fast, providing the timely data for production and analysis. The analysis results of each sample can be obtained within a few minutes, greatly improving the work efficiency.
- * The customized Chinese operating software enables the product to have complete functionality. Meanwhile, the operation of the device is simple and easy to learn, making it suitable for use in the laboratory.

- * The operating platform is further away from the core component area, which is more conducive to protecting the core components from pollution and damage.
- * The magnetic fluid is sealed with better vacuum. This design is more conducive to the detection of light elements.
- * Circuit control system: Siemens brand PLC control module is adopted. Compared with the traditional electronic circuit boards, this type of device has higher control accuracy and lower failure rate. Based on this, the functional upgrade of this product is more convenient. The product price is transparent, thus eliminating the uneven quality and opaque repair prices caused by the self-designed circuit boards.
- * In the vacuum system, the Pirani type vacuum gauge is adopted, with more accurate vacuum detection.
- * The private design is more conducive to ensuring the stable operation of various institutions.
- * The calibration instrument for the permanent standard samples is equipped to ensure the stability of the instrument.
- * Multiple sets of standard samples, including the imported standard production working curves, are adopted to ensure

Technical Parameters:

Model		BK-XRF6
Detectors	Typical Resolution	123ev
	Output Count Rate	1500KCPS
	Peak-to-back Ratio	≥25000:1
	Peak-to-tail Ratio	> 1800
	Features of the Window	The ultra-thin window with 1μm carbon window increases the signal acquisition intensity of light elements.
X-Ray Tube	Processor	Original imported multi-channel data acquisition system
	High Voltage	0-50Kv continuously adjustable
	Current	0-4000uA continuously adjustable
	Power	50W
High Voltage Generator	Stability	0.2% after 8 hours
	Input Voltage	24VDC
	Input Current	4A
	Output Voltage	50Kv, 0-4MA
Spectral Analysis System Control and Data Processing System	Maximum Power	50W
	Stability	8 hours 0.05%
	16 bit analog-to-digital converter	
	24-inch display	
Power Supply	Brand computer	
	512G solid-state drive	
Work Environment	Multifunctional standard keyboard	
	Laser printer	
Dimension	220V±10% 50Hz	
	Temperature Range	5~30℃
	Relative Humidity	≤ 80%
Dimension	External Size(L*W*H)	800*700*1400mm
	Net Weight	150kg
	Package Size(L*W*H) & Gross Weight	Main Machine Box: 1070*870*1700mm, 200kg Accessory Box: 890*640*790mm, 70kg Power Supply Box: 630*490*850mm, 113kg