

# RoHS Tester

**Model: JXF-8000**

**Energy Dispersive X-ray Fluorescence Spectrometer**

RoHS heavy metal elements, halogen test, coating  
thickness measurement function



## Reference standards

IEC 62321, GB/T26125-2011 standard detection method

## product description

JXF-8000 is a high-end spectrometer model with dual radiation protection system; humanized operation interface; comprehensive application of empirical coefficient method and basic parameter method V1.0 analysis software. The element test ranges from S-U, which can detect lead (Pb), mercury (Hg), cadmium (Cd), total bromine (Br) and total chromium (Cr) in the regulations, and can also detect chlorine (Cl) in the halogen-free directive ) and bromine (Br) elements. The well-designed open working curve function is especially suitable for the factory process control of various materials. Compared with the traditional common instruments in the industry, this model has the advantages of rapid analysis and identification of material abnormalities in the current industry. It is based on an efficient and accurate system solution that fully solves the customer's HSF control demands. The principle of this solution is clear, the method is feasible, and the effect is remarkable.

JXF-8000 has accumulated many years of experience in algorithms, rationalized design and development, accurate testing and handy operation, convenient RoHS limit testing, material element analysis, coating thickness analysis, and testing in compliance with global regulations on hazardous substances and testing methods.

## Detecting substances

Element testing ranges from S-U, mainly detecting lead (Pb), mercury (Hg), cadmium (Cd), total bromine (Br) and total chromium (Cr) in the regulations, and chlorine in the halogen-free directive can also be detected (Cl) and bromine (Br) elements.

## Application industry

electronic appliances, large and small home appliances, IT communications, lighting equipment, metal, toys, packaging and other industries.



### Precise open working curve

Provide an open working curve platform, preset multiple working curves, users can freely configure working curves and add standard sample data arbitrarily, covering metal, PE, PVC, aluminum-magnesium, solder, copper alloy and other substrate types to meet users' routine measurement requirements Require;



### Fast original full-spectrum comparison function

Real-time tracking of supplier material abnormalities and timely warnings have unparalleled advantages in RoHS/halogen-free and supplier control.



### Safety double X-ray protection

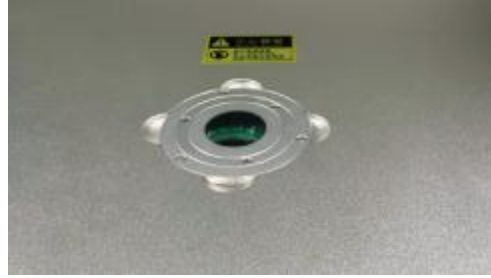
Double X-ray protection (software, hardware, labyrinth design) ensures the personal safety of operators and radiation damage caused by accidental operations;

# Product advantages



## Large sample room design

Large sample chamber design, can open the cover to test infinite samples (with protection mechanism), compared with traditional models, it provides a larger space;



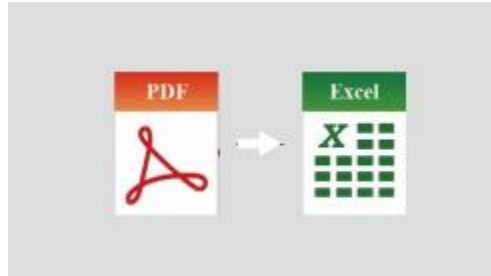
## Adopt new optical path design

A new optical path design is adopted to reduce the detection limit of chlorine (Cl) element;



## Leading XRF Analysis Software

The world's leading XRF analysis software integrates analysis methods including empirical coefficient method and fundamental parameter method (FP method);



## Multiple report output formats (Excel, PDF, etc.)

The test report output format (Excel, PDF, etc.) can be customized according to user requirements to meet the factory's various statistical and format requirements; multilingual (English, Simplified Chinese, Traditional Chinese, etc.) software interfaces are available;

**compliance with the regulations and detection methods of the Global Hazardous Substances Regulations, the JXF-8000 series analyzers have been approved as a screening tool for:**

- EU RoHS Directive (2011/65/EU)
- China RoHS Directive (ACPEIP)
- Japan RoHS
- Korean RoHS Directive
- US Consumer Product Safety Improvement Act (CPSIA) (HR4040)
- US Halogen Free Restriction Directive
- California Proposition 65
- US CPSC-CH-E1002-08 SOP standard operating procedure

# Technical Parameters

JXF-8000	
Instrument size	520(W)x400(D)x355(H)mm
Sample cavity size	420*320*65mm , Can open the cover to test unlimited samples (with protection mechanism)
examination range	Satisfy the detection of harmful elements of heavy metal elements in the EU RoHS directive, lead (Pb), cadmium (Cd), mercury (Hg),total chromium (Cr) and chlorine (Cl), bromine (Br) elements in the halogen-free directive; Optional detection: composition analysis of iron alloy and copper alloy, metal coating thickness measurement (analysis of 1-2 layers, minimum detection limit 0.005um function, etc.)
range of test elements	T-Elements in S-U meet qualitative and quantitative analysis
Detection range	1ppm-99.99%
lower detection limit	Pb≤5ppm,Cd/Cr/Hg/Br≤2ppm,Cl≤50ppm
Test sample type	solid, powder and liquid
measure time	10 ~ 200 s (time adjustable)
resolution	145±5 KeV
Spectrum processing system	Digital-to-analog conversion (DP5),track interval 2048, counting 500 ~ 8000cps
Collimator	Φ0.3mm、Φ1mm、Φ3mm、Φ5mm、Φ8mm
filter	Automatic switching of 5 composite filters
CCD observation	8 million pixel HD CCD
detector	US Si-pin (X-123 DP5 FW6 version) detector
input power	AC110V ~ 250V , 50/60Hz
rated power	400W
net weight	About 41.8Kg
Working temperature	Temperature 10-30 °C
Working environment relative humidity	40% ~ 80% (no condensation)
JXF-8000 Plus	
Instrument size	520(W)x400(D)x355(H)mm
Sample cavity size	420*320*65mm , Can open the cover to test unlimited samples (with protection mechanism)
examination range	Satisfy the detection of harmful elements of heavy metal elements in the EU RoHS directive, lead (Pb), cadmium (Cd), mercury (Hg),total chromium (Cr) and chlorine (Cl), bromine (Br) elements in the halogen-free directive; Optional detection: composition analysis of iron alloy and copper alloy, metal coating thickness measurement (analysis of 1-2 layers, minimum detection limit 0.005um function, etc.)
range of test elements	Elements in Al-U, satisfying qualitative and quantitative analysis
Detection range	1ppm-99.99%
lower detection limit	Pb/Cd/Cr/Hg/Br≤2ppm,Cl≤10ppm
Test sample type	solid, powder and liquid
measure time	10 ~ 200 s (time adjustable)
resolution	125±5 KeV
Spectrum processing system	Digital-to-analog conversion (DP5),track interval 2048, counting 500 ~ 8000cps
Collimator	Φ0.3mm、Φ1mm、Φ3mm、Φ5mm、Φ8mm
filter	Automatic switching of 5 composite filters
CCD observation	million pixel HD CCD
detector	Original US SDD detector
input power	AC110V ~ 250V , 50/60Hz
rated power	400W
net weight	About 41.8Kg
Working temperature	Temperature 10-30 °C
Working environment relative humidity	40% ~ 80% (no condensation)

SHENZHEN JUN HUI TENG TECHNOLOGY CO.,LTD.

📍 Jingdong Avenue, Jingdong Zhigu, Fenggang Town, Dongguan City, Guangdong Province, China, B11 Building

☎ 0755-23358711/10 📠 0755-23358712 🌐 400-0700-292

