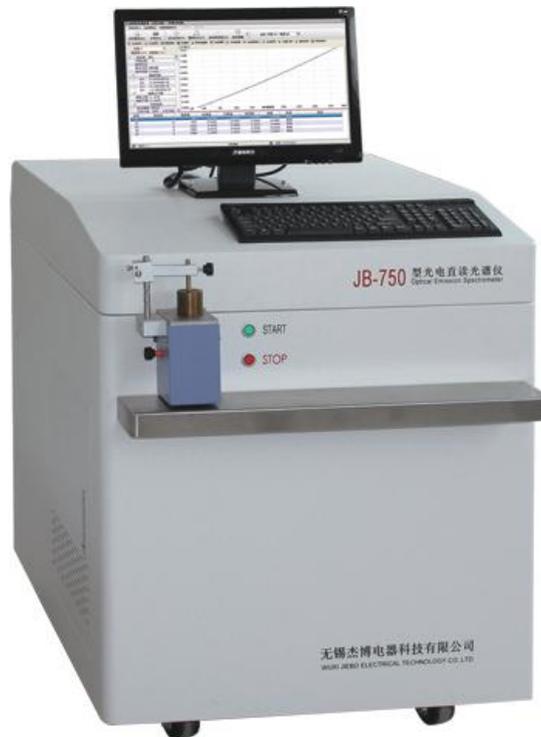


NAME: Optical Emission Spectrometer

TYPE: JB-750

Origin: Wuxi, Jiangsu, China (Long×Wide×High = 1180mm×750mm×1010mm)



Application area

This apparatus is widely used in material analysis of various industries, such as iron and steel, non-ferrous metal, metallurgy, machinery, chemical equipment, quality inspection system and so on. It is also used in , routine identification and analysis in metallic smelt industry.

- 1、 Manage blast furnace process control by various processes of blast furnace celerity analysis.
- 2、 Identification of product specifications.
- 3、 Material checking and acceptance.
- 4、 Quality inspection.

Allocating and analyzing channel and quantitative work scale

Major Features

- 1、 The human oriented design, the standardized and modularized manufacture make the apparatus smaller.
- 2、 The core components are all imported, which strengthen the stability and reliability of the apparatus.
- 3、 We adopt the advanced foreign technologies of excitation source and design the excitation source of high energy, high stability by our own to fulfill the needs of ultrahigh content and trace analysis.
- 4、 It adopts overall exit slit using technology which is convenient for choosing passage and regulating.
- 5、 The high voltage of the PMT in the apparatus is controlled directly by computer and regulated by software, which improved efficiency of the passage.
- 6、 In the apparatus, there is an automatic constant temperature system which solve the problem of bad effects to the optics system caused by changing temperature.
- 7、 The multi-language operation software and flexible configuration enable the apparatus more humanistic.

Address: No.228, Qingling Road, Fengxian, Shanghai, China. 201414

8. This apparatus can analyze various kinds of matrix, such as Fe, Co, Ni, Ti, Cu, Al, Pb, Mg, Zn and Sn.

The configuration of the product

Direct Reading Spectrometer

Main Parameters

Excitation light source:

Supply voltage: 50Hz, 220V \pm 1%

Input power: 1.0KVA

Charging capacitor: pre-combustion 8 μ F, exposure 1.5 μ F

Peak Current: pre-combustion 100A, exposure 20A

The main circuit peak pressure: 300VDC (with automatic adjustment of peak pressure)

Ignition circuit: pulse amplitude: +15 KV

Auxiliary gap: Using Tunnel Diode

Discharge frequency: 200 Hz ~ 600 Hz

Sample sets of gap: 4mm

Spectrometer:

Analysis band range: 130~650nm

Machine engraved concave grating: Curvature radius of 750mm

Depicts the density: 1667/mm

Incidence angle: 35 degrees

Allows a maximum of channels: 36 (expandable to 64)

Spectrometer Local temperature: 35 $^{\circ}$ C \pm 0.5 $^{\circ}$ C

Control System:

Measurement and Control System: The single board computer measurement and control, data exchange with the Host Computer

Reproducibility: RSD \leq 0.2%

Photomultiplier tube high voltage power supply:

Stability: 8 hours is better than 0.5%

Data processing system

1、 Hardware configuration (basic configuration)

- Computer: 250G/2G /19 LCD

- Printer

2、 Software functions

- Multi-languages operation software under WINDOWS operation system

- Various samples calibrate one analysis result simultaneously

- Polygon and polynomial curve fitting

- The concentration base of drawing curve management

- Matrix correction and disturbance correction

- There is a power management module

- Quality controlling standard and management

- System condition inspection

- Data outputting management

Address: No.228, Qingling Road, Fengxian, Shanghai, China. 201414

E-mail: sales@yk-instrument.com [Http://www.yk-instrument.com](http://www.yk-instrument.com)

Common element content range channel table of ferrous metal

Element	Content range%	Channel	Element	Content range%	Channel
Fe	0.002~0.50	1	Bi	0.001~0.50	1
P	0.001~2.0	1	La	0.005~0.50	1
S	0.001~0.35	1	Ce	0.005~0.50	1
B	0.0005~0.20	1	Si	0.001~5.0	1
Sn	0.002~0.50	1	Mg	0.005~1.0	1
Sb	0.002~0.50	1	Mn	0.001~20.0	2
As	0.001~0.30	1	Al	0.001~6.0	1
C	0.0025~4.0	1	V	0.0005~6.0	1
Mo	0.001~10.0	1	Ti	0.005~3.0	1
W	0.01~22.0	2	Co	0.002~15.0	2
Cu	0.005~2.5	1	Pb	0.005~0.50	1
Ni	0.001~30.0	2	Nb	0.005~3.0	1
Cr	0.001~30.0	2	Zr	0.005~0.10	1

Common element content range channel table of non-ferrous metal

Element	Content range%	Channel	Element	Content range%	Channel
P	0.005~2.0	1	Sb	0.005~0.50	1
Sn	0.002~10.0	2	Al	0.005~10.0	1
Zn	0.01~10.0	2	Cd	0.0005~0.50	1
Si	0.005~20.0	2	As	0.001~0.10	1
Fe	0.005~10.0	2	Bi	0.002~0.50	1
Cu	0.005~10.0	2	Be	0.002~0.50	1
Mg	0.005~10.0	2	Zr	0.002~3.0	1
Mn	0.002~3.0	1	La	0.001~0.50	1
Ti	0.005~1.0	1	Ce	0.001~0.50	1
Ni	0.005~3.0	1	Pr	0.001~0.50	1
Cr	0.005~3.0	1	Nd	0.001~0.50	1
Pb	0.005~10.0	2	Sm	0.0005~0.50	1
B	0.002~0.50	1	Ga	0.0005~0.50	1
V	0.002~0.50	1	Sr	0.002~0.50	1

Adjuvant Equipments (self-prepared)**Argon**

- Two cylinders of high purity argon gas. (The purity degree>99.996%)
- One YQY-6 Oxygen reducing valve.
- One argon gas purifier.

Address: No.228, Qingling Road, Fengxian, Shanghai, China. 201414

Power supply

- Electronic AC Power Supply ($\geq 3\text{KV}$, single phase 220V)
- Independent exclusive Ground line, grounding resistance less than 2Ω ,

Standard samples

- Analyzing different materials, choosing curve samples and controlling curves.

Environmental equipment

- Install air conditioner according to the size of the place laid the apparatus.
- Install dehumidifier in humid areas.
- One small vacuum cleaner.

Apparatus installation

- The apparatus installation should be guided by the engineers of our company.
- Check the goods and packing list to affirm that they are qualified and the contents match the instructions.
- Check whether or not the lab is qualified for using the apparatus.
- Install and start the apparatus to check if everything works well.
- Test and adjust according to the requirements on the technical contract. Make sure that the apparatus complies with the requirements.
- Train the users, including: operate apparatus, use software of the apparatus and daily maintenance of the apparatus.

Equipment acceptance

Choose one or two sets of national standard samples appointed by both parties and check the equipment , Check and analyze the precision with repeated acceptance checking program and fill the installation and acceptance checking report.

After-sales service

- This apparatus has a 12-month warranty since the date of install and inspection.
- Beyond the warranty period, company will still provide after-sales service.

Spare Parts

NO.	Name	Specification	Qty.	Unit
1	Computer	250G/2G18.5LCD	1	Set
2	Printer	HP1108 Laser Printer	1	Pcs
3	Operating application software	Flash U-Disk	1	Pcs
4	Apparatus operating manual			
5	Protective tube	$\phi 6.5 \times 45$ 10A	2	Pcs.
6	Tungsten electrode	Diameter 4mm	1	Pcs
7	Polar distance gauge	4.0mm	1	Pcs
8	Sealing ring		1	Set
9	Brush electrode		1	Pcs
10	Stainless steel tube	6.0mm	2.5	Meter

Address: No.228, Qingling Road, Fengxian, Shanghai, China. 201414

11	Oxygen Reducing Valve	0-0.4Mpa	1	Pcs
12	Tool assembly		1	Set