SPARK DIRECT READING SPECTROMETER (BASIC TYPE)
CODE OES-T350




printer (included)


filter element (included)


AC voltage regulator (included)


calibration sample (included)


electrode brush (included)


pressure valve (included)


spectral sample grinder **(optional)**


argon purifier **(optional)**

- Widely used in metallurgy, casting, scientific research, commodity inspection, automobile, shipbuilding, aviation, nuclear power, etc.
- Ability to analyze trace elements such as carbon (C), phosphorus (P), sulfur (S), etc.
- The analysis speed is fast, and the element composition of all channels is measured within 20 seconds
- Paschen-Runge structure with full wavelength coverage, the most concise and stable optical system structure
- Perfect aberration correction, so that the spectrometer has excellent resolution, minimize the cross interference of different elements
- Argon-filled optical chamber, effectively reducing the attenuation of P and S rays in the far ultraviolet region
- The software has automatic spectrum correction technology, can store database, trace historical data, output and print reports
- Report format can be customized, data can be sent out

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Software	1 pc
Printer	1 pc
Calibration sample	1 pc
Electrode brush (OES-T350-BR)	2 pcs
Filter element	2 pcs
AC voltage regulator	1 pc
Pressure valve	1 pc

OPTIONAL ACCESSORY

Spectral standard sample	**MSS series**	select standard sample based on the test material
Spectral sample grinder	**OES-MY100**	Ø350mm, 380V
Argon purifier	**OES-T350-PURIFIER**	220V

SPECIFICATION

Curves	standard curve	low alloy steel (**A1**), cast iron (**A2**), stainless steel (**A3**)
	customized curve	curves can be added or customized for special base materials (Ti, Pb, Sn, Co, etc.)
Optical system	optical structure	paschen-runge structure
	rowland circle of diameter	350mm
	wavelength range	160~510nm
	detector	multi high resolution CCD detectors
	pixel resolution	20pm
	full spectrum	cover the full range of element analysis
	light room temperature	34±0.5°C (be controlled automatically)
Spark source	type	digital arc and spark source/new plasma generator
	spark frequency	100~1000Hz
	plasma current	1~80A
	Ignition voltage	>7000V
Spark stand		spray discharge electrode technology reduces argon consumption and improves argon use efficiency
		good heat dissipation, continuous excitation for 100 times, the temperature of the excitation table does not rise more than 5°C
Operation temperature		10~30°C, 23±2°C is recommended
Argon quality		99.999% high purity argon, argon pressure≥4MPa
Argon consumption		5L/min during spark mode
Operation humidity		20%~80%RH
Power supply		AC220V, 50Hz
Power consumption		excitation: 300W, stand by: 40W
Dimension (L×W×H)		700×660×340mm
Weight		30kg

TEST CURVES*

Fe base curves	**A1**	**A2**	**A3**	**A4**	**A5**	**A6**	**A7**
	Low alloy steel**	Cast iron	stainless steel	High Mn steel	High Cr cast iron	High speed tool steel	High Ni cast iron
Al base curves	**B1**	**B2**	**B3**	**B4**	**B5**		
	Low-Al	Al-Si	Al-Zn	Al-Cu	Al-Mg-Si		
Cu base curves	**C1**	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**
	Brass	Copper	Al-Cu	Beryllium Bronze	Sn-Pb-Cu	Pure copper	Si-Bronze
Ni base curves	**D1**	**D2**	**D3**	**D4**	**D5**		
	Pure Ni	Monel	Hastelloy	Inconel/Incoloy	Nimonic		
Zn base curves	**F1**	**F2**					
	Pure Zn	Zn-Al Alloy					
Mg base curves	**G1**	**G2**					
	Pure Mg	Mg/Al/Mn/Zn					

*Low alloy steel **(A1)** cast iron **(A2)**, stainless steel **(A3)** are standard curves, and all others are optional
The specific range of curve elements is shown in the attached curve table
Low alloy steel **(A1) includes carbon and medium-low alloy steel