



VIDEO

## 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<br>good heat dissipation, continuous excitation for 100 times,<br>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 \*

|                | A1                | A2          | A3              | A4               | A5                | A6                    | A7                |
|----------------|-------------------|-------------|-----------------|------------------|-------------------|-----------------------|-------------------|
| Fe base curves | 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