



## **TY-9000** Optical Emission Spectrometers (Arc/Spark-OES)

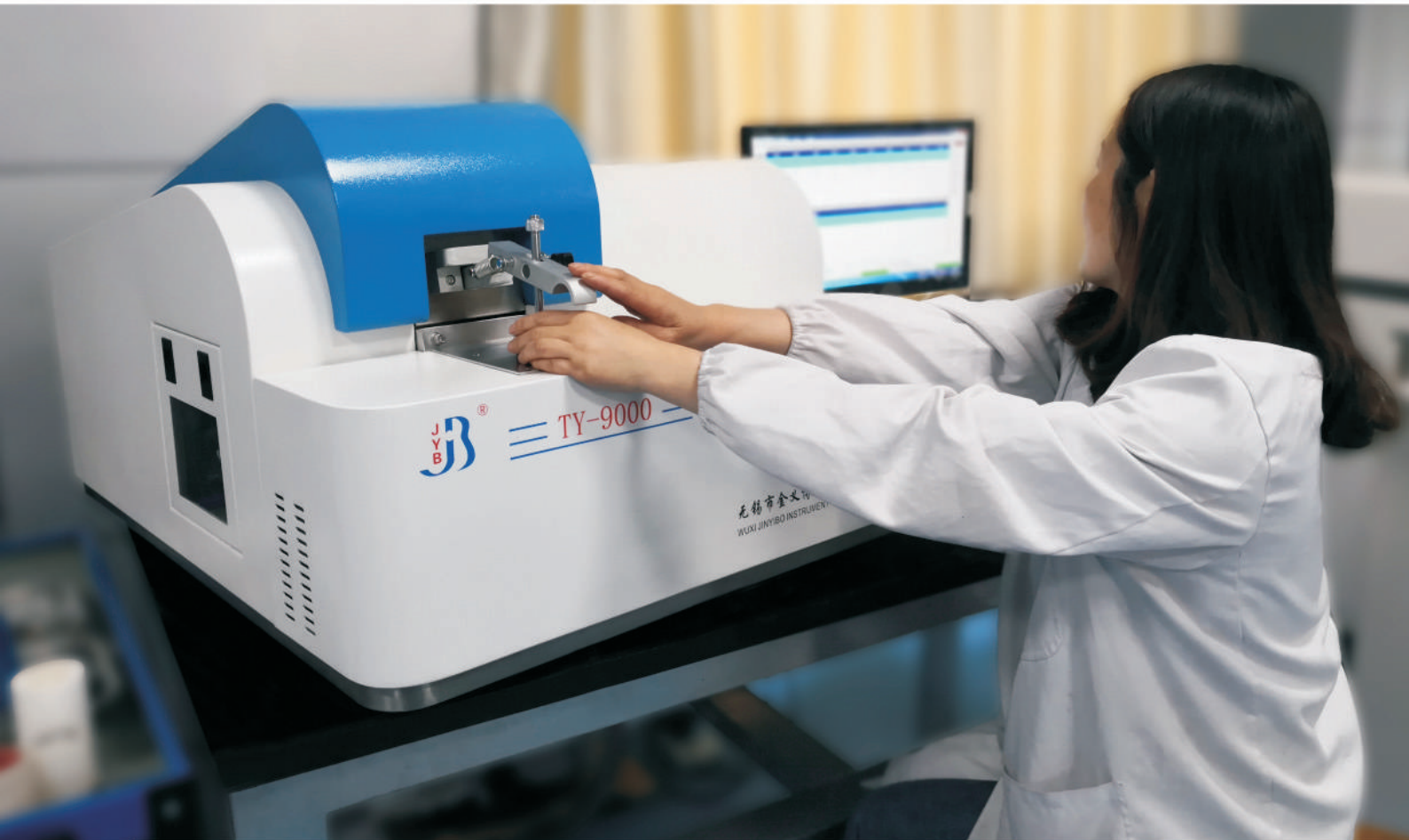
A Full Range of Solutions for the Entire Metals Industry



**JINYIBO INSTRUMENT**

Precise Instruments, Perfect Experience

# TY-9000 Metal Analyzer



## Summary

**TY-9000** is Full Range of Solutions for the Entire Metals Industry. It use full-digital technology to replace bulky photomultiplier tube (PMT) simulation technology and keep pace with international spectrometer technology. The adoption of vacuum optical chamber design, full-digital excitation light source, advanced CCD detectors, and high-speed data readout system equips the device with high properties, ultra-low limit of detection (LOD), long-term stability and repeatability. The analytical precision can meet the requirements of laboratory standard, the analytical date is stable and reliable. Widely used in Metallurgy, casting, machinery processing and other industries incoming and outgoing product quality control.

## Key Applications

- ◆ Large Steel Plants Where needs are at around 10 PPM levels or elements like C, N, Cr, S, P etc
- ◆ Testing Laboratories: Commercial testing laboratories, Universities and colleges
- ◆ Pure metal applications purity Al, Pb, Zn, Mg etc. – most industrial users
- ◆ Regulatory compliance Very low LODs to control Pb, Cd, As etc
- ◆ Foundries which need a quick analysis near the furnace
- ◆ Manufacturing Facilities
- ◆ Warehouse material identification
- ◆ Base: Fe, Cu, Al, Ni, Co, Mg, Ti, Zn, Pb, Sn, Ag, etc



# TY-9000 Features

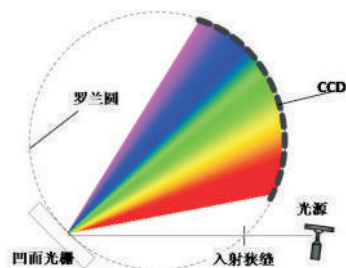


## Features

- ◆ Optimized to customer requirements
- ◆ Complete analysis within a few seconds
- ◆ High-resolution Multi-CCD optics for optimal spectral line separation
- ◆ Wavelength coverage 130nm-800nm, permitting simultaneous
- ◆ analysis for up to 31 elements
- ◆ All types of ferrous and non-ferrous applications
- ◆ Available for routine analysis of small sample, diameter from 4mm
- ◆ Precise reliable fast, versatile and affordable
- ◆ Low Total Cost of Ownership
- ◆ Humanized design, configuring as a bench top or floor model with storage possibilities for consumables and spares
- ◆ Technology support and software update for free
- ◆ Adding additional analysis base without any change of hardware
- ◆ Comprehensive diagnostic system including error detection, logging and reporting
- ◆ In-built safety features for instrument and user safety

## Optics Features

- ◆ High-resolution CCD detectors
- ◆ Wavelength Range: 130 to 800 nm
- ◆ Rowland Circle up to 400 mm focal length
- ◆ Thermally stabilized optics to ensure high precision and stability



## Spark Stand

- ◆ Open Stand with clamping system designed to ensure high sample throughput
- ◆ Argon flushed and optimized Argon flow
- ◆ Easily operated sample clamp adapted to various kinds of geometries
- ◆ Durable electrode and easy maintenance
- ◆ Easy operated small sample clamp
- ◆ Auto-detection of Sample Presence



## Analytical Features

- ◆ Analysis of ferrous and non-ferrous metals
- ◆ Multi-base capability
- ◆ Display of Mean Value and RSD/SD
- ◆ Global and Type Standardization
- ◆ Simple Re-standardization
- ◆ JINYIBO Analysis Software for sorting metals element-wise
- ◆ Analysis of 40+ elements including N, P, Zn, Li etc.
- ◆ Suitable for high-purity analysis of Cu, Al, Pb, Zn, etc
- ◆ Applications for analysis of wires and thin sheets

## Software

- ◆ Customized element view & decimal point position
- ◆ Easy used and graphic interface based on Windows
- ◆ Automatic diagnosis system
- ◆ Database management
- ◆ Microsoft Windows operating system

The screenshot displays the software's data processing window. It features a table with multiple columns representing different elements and their concentrations. The interface includes various control buttons and a status bar at the bottom.

## Accessories and Options

- ◆ Wire Analysis Adapters
- ◆ Small Sample Analysis Kit
- ◆ Spectrometer Sample Surface Polishing Machines
- ◆ Certified Reference Materials (CRMs)

## Electrical and Environmental Requirement

- ◆ AC220V/50HZ (Customized)
- ◆ Max 750W in sparking
- ◆ Average standby power 100W
- ◆ Room temperature: 10°C~35°C
- ◆ Relative humidity: 20%~85%

## Dimension

- ◆ 800mm(L)\*700mm(W)\*470mm(H)
- ◆ Net weight: 100kg



Jinyibo is leading manufacturer of Optical Emission Spectrometer, Carbon and Sulfur Analyzer, XRF Spectrometers, ICP Spectrometers.

For now, totally over 6500 sets instrument come in to use globally. Customers include Hyundai Group, South Korea POSCO, DAEWOO, Volkswagen, BMW, Nissan, Shagang Group, SANY, BYD, SINOPEC, GREE, Chinalco, etc.

We focus on innovation of advanced products and manufactured them to be very high quality. Precise Instruments, Perfect Experience are always our top priority. Every day, more than 2.56 enterprises select Jinyibo all over the world.

Today, we have an established presence in 30+ countries across 5 continents including North and South America, Europe, Africa and Asia. In each market, we will spare no effort to deliver the best analytical instruments to meet your demands.





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