

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



The picture is for reference only

A Full Range of Solutions for the Entire Metals Industry

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.

Analytical Program

Note:

The instrument is calibrated with standard samples for general purpose. For special alloy and special elements, the instrument must be calibrated by customer themselves. Or if customer is willing to provide sample collaboration for program development, the customer must provide

accurate sample element content tables and ensure sample uniformity, but such curves are not used as acceptance indicators of the instrument.

If the customer has type sample demand, the type sample number can be provided, and the customer can purchase the type sample by himself; if the salesman buys the type sample on behalf of the salesman, the type sample will be shipped separately by our company;

Technical Data of TY-9000

1. Parameter

	Item	Index
Optical System	Focal Length	400mm
	Wavelength range	130nm-800nm
	Detector	High resolution CCD Multi detectors
	Degree of vacuum	Auto control within 6-20 pa
	Pixel resolution	30pm
	Grating line	2400m1/mm
	First order spectral line dispersion rare	1.2nm/mm
	Average resolution ratio	10pm/pixel
	Full spectrum	
	Light room temperature is controlled automatically	
Spark Source	Type	Digital arc and spark source
	Spark frequency	100-1000HZ
	Discharge current	1-400A
	Ignition voltage	>15000V
	Excitation light	Optimization of discharge parameters design
		High energy precombustion technology HEPS
Spark Stand	Processor	High-speed data synchronization acquisition and processing
	Electrode	Tungsten electrode technology
	Make up	Thermal deformation self-compensation design
	Argon flushed with minimal consumption of Argon	
	Spray discharge electrode technology	
	Adjustable electrode technology	
	Measurable elements	Fe、Al、Cu、Ni、Ti、Co、Zn、Sn、Mg、Pb etc

Others	Dimension	800mm(L)*700mm*470mm(H)
	weight	About 100kg
	Storage temperature	0°C-45°C
	Operating temperature	10°C-35°C, 23±2°C is recommended
	Power	AC220V/50Hz(Customized)
	Power consumption	Excitation:700W/Stand by:100W
	Argon quality	99.999%, Argon pressure>4Mpa
	Argon consumption	5L/min during spark mode
	Interface	Ethernet data transmission based on DM9000A





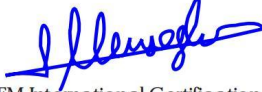
MACHINERY DIRECTIVE ATTESTATION OF CONFORMITY

Technical file of the company mentioned below has been inspected and audit has been completed successfully.

2006/42/EC Machinery Directive Annex VIII has been taken as references for these processes.

Company Name : **JINAN HENSGRAND INSTRUMENT CO., LTD.**
Company Address : NO.4915, WEST JINGSHI ROAD, JINAN, CHINA
Related Directives and Annex : **2006/42/EC Machinery Directive/Annex VIII**
Related Standards : **EN ISO 12100:2010, EN 60204-1:2018**
Product Name : **TESTING MACHINE**
Report No and Date : TCF-JHIC230128-MD
Product Brand/Model/Type : WDS-1, WDS-2, WDS-3, WDS-5, WDS-10, WDS-20, WDS-30, WDS-50, WDS-100, WDS-200, WDS-300, WDS-500, WDW-1, WDW-2, WDW-3, WDW-5, WDW-10, WDW-20, WDW-30, WDW-50, WDW-100, WDW-200, WDW-300, WDW-500, WDW-600, WDW-1000, WE-300, WE-600, WE-1000, WE-2000, WEW-300, WEW-600, WEW-1000, WEW-2000, WAW-300, WAW-600, WAW-1000, WAW-2000, WAW-3000, WAW-5000, WAW-6000, LAW-1000, JB-300B, JBS-300, JBW-300, JB-500B, JBS-500, JBW-500, JBW-750, CST-50, VU-2Y, VU-1S, DWC-40, DWC-60, DWC-80, DWC-100, DWC-196, YES-2000, YES-300, YAW-1000, YAW-300, YAW-2000, YAW-3000, YAW-5000, NDS-200, NDS-500, NDS-1000, NDS-2000, NDW-200, NDW-500, NDW-1000, NDW-2000, NDW-3000, NDW-5000, NDW-10000, HEZ-3, HEZ-6, HEZ-10, JWJ-10, TLS, TLW, HST-P50, HST-P100, HST-P200, HST-P300, RDJ, NDT, DWTT, GBW-60, GW-50, HST, XNR-400

Certificate Number : **M.2023.206.C81366**
Initial Assessment Date : 31.01.2023
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