

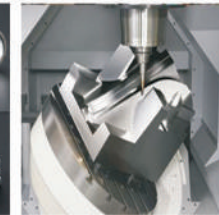
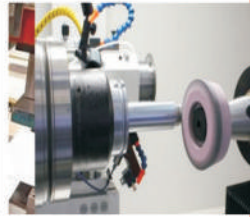


JINYIBO INSTRUMENT
Precise Instruments, Perfect Experience

NEW

ONH-2018

Oxygen Nitrogen Hydrogen Analyzer



Precise and Efficient
ONH Elements Analysis



ONH-2018 Series Oxygen Nitrogen Hydrogen Analyzers are professional laboratory analytical instrument with high sensitivity, high precision and high stability. Due to the modular design, future hardware and software upgrades are convenient. It is used to analyze oxygen, nitrogen and hydrogen concentrations in inorganic sample materials reliably, accurately and safely by inert gas fusion.



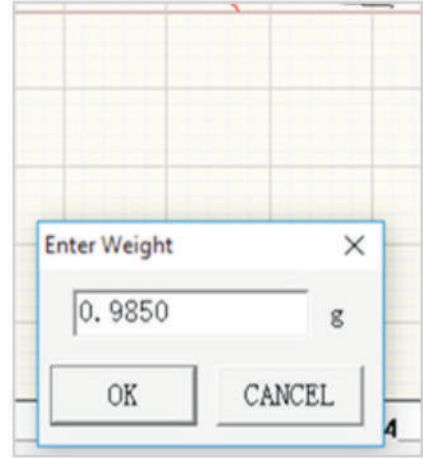
It is easy to operate and get results quickly



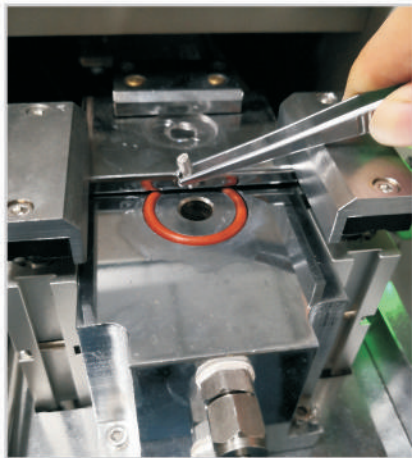
Turning on the analyzer



Weighing the sample



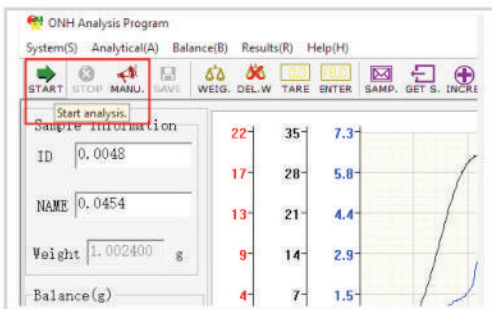
Transferring the weight to the software (manual or automatic)



Manual sample feed to the sample port system



Placing a crucible on the lower electrode



Start of analysis



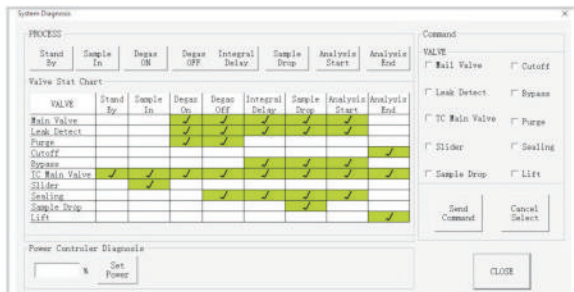
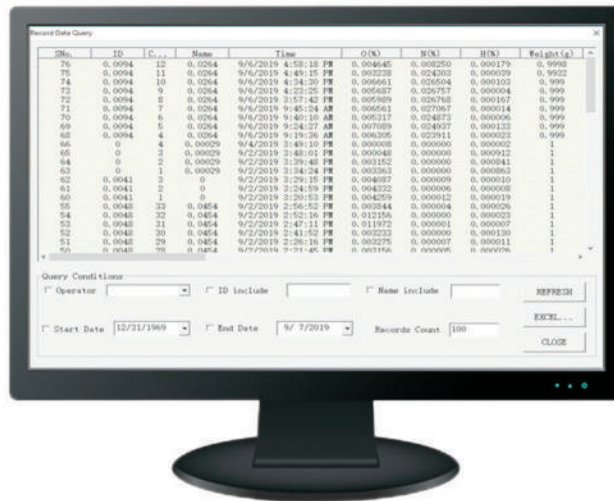
Display of analysis results

Software ONH-2018 Series

Software is based on PC control with Windows

The ONH-2018 Series operation of software is very rapid, reliable, and user-friendly. There are some superiority features, for example:

- It has a report function for analysis data and calibrations.
- It has a powerful export functions
- It has one point or multi point calibration.
- It has functions of calculation and recalculation of measurement values.
- It has a user-defined maintenance counter
- It can automated segmented leakage test



Leakage test

The analyzers of the ONH-2018 Series have been designed with a closed gas system, so it is necessary for us to carry out a leakage test.

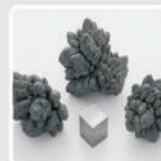
Applications-Inorganic

ONH-2018 Series

The impulse furnaces of ONH-2018 analyzer can measure the oxygen, nitrogen, and hydrogen concentrations of inorganic sample materials quickly and reliably.

Typical sample materials

Copper, steel, lead, ores, titanium, ceramics



Typical example: Oxygen, nitrogen and hydrogen in stainless steel



It has a powerful influence for us to test material properties of the oxygen, nitrogen and hydrogen such as hardness, ductility or brittleness of steel.

It has a strong influence for us to test material properties of the oxygen, nitrogen and hydrogen such as hardness, ductility or brittleness of steel. The ONH-2018 analyzer can fully meet customers' requirements about testing stainless steel.

ONH-2018 Oxygen/Nitrogen/Hydrogen Analyzer Testing Report

Date	Sample	Elements						
2019.9.06	Stainless Steel	Oxygen			Nitrogen		Hydrogen	
Standard Value of Oxygen		0.0025						
Actual test value of Oxygen		0.0023	0.0022	0.0024	0.0025	0.0023	0.0024	0.0025
Standard Value of Nitrogen		0.058						
Actual test value of Nitrogen		0.0577	0.0576	0.0583	0.0573	0.0581	0.0576	0.0572
Standard Value of Hydrogen		0.0002						
Actual test value of Hydrogen		0.00021	0.00022	0.00023	0.00019	0.00020	0.00022	0.00021
Operator		Eng. Tang Wei						

Technical Specifications

Item	Index
The Scope of Analysis	Oxygen: 0.00005%~0.1% Nitrogen: 0.00005%~0.5% Hydrogen: 0.00005%~0.0050%
The Minimum Reading	0.000001%
Instrument Accuracy	Oxygen: SD: $\leq 0.0001\%$ or RSD $\leq 1.0\%$ Nitrogen: SD: $\leq 0.0001\%$ or RSD $\leq 1.0\%$ Hydrogen: SD: $\leq 0.2\text{ppm}$ or RSD $\leq 2.0\%$
The Time of Analysis	Oxygen: 120~180s Nitrogen: 120~240s Hydrogen: 120~180s/120~240s (Infrared absorption method / thermal conductivity method)
The Electronic Balance Weighing Accuracy(One ten thousandth)	0.0001g
The Method of Analysis	Oxygen: Infrared absorption method Nitrogen: Thermal conductivity Hydrogen: Infrared absorption method / thermal conductivity method
Pulse Heating Furnace	Maximum current: 1500A Maximum power: 8KVA Maximum temperature: 3500°C
Carrier Gas	99.999% High purity argon / high purity helium, 0.40MPa
Power Gas	Ordinary nitrogen or purified compressed air (de-oil removal), 0.25MPa.
Chemical Reagent	Magnesium perchlorate, alkali asbestos

Consumables

Graphite Crucibles

It has good thermal conductivity and high temperature resistance. It has a small coefficient of thermal expansion during high temperature use and has certain strain resistance to rapid heat and rapid cooling.



Certificated Reference Materials(CRMs)

Others

Other accessories such as Combustion Tube, De-dusting Tube, Combustion Tube Brush Cleaner, Oscillator, Desiccant etc., are also available.





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