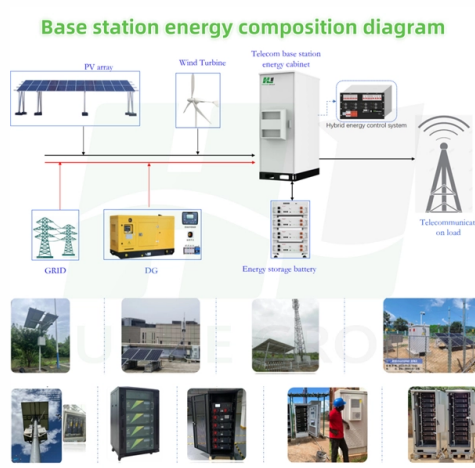


Portable Round Steel Elemental Spectrometer



AI Overview

Portable elemental spectrometers like ferro.lyte®, SPECTROPORT, and Belec Compact Port HLC enable fast, on-site analysis of steel and metal alloys with laboratory-grade precision. Key Portable Spectrometer Options:

- ferro.lyte® (Elementar)**
 - Technology:** Optical Emission Spectrometry (OES) with spark excitation
 - Capabilities:** Precise analysis of low atomic number elements (C, P, S, B, Li, Be, Ca, Si, Mg, Al) and nitrogen in duplex steels
 - Portability:** Compact, lightweight (16 kg), integrated argon bottle and hand probe holder for easy transport
 - User Interface:** Intuitive touchscreen with customizable workflows and alloy identification
 - Advantages:** Laboratory-level accuracy on-site, fast analysis in seconds, optimized for metal production, processing, and recycling
- SPECTROPORT (SPECTRO)**
 - Technology:** Portable arc spark OES
 - Capabilities:** Accurate detection of carbon, sulfur, phosphorus, boron, and other alloying elements
 - Portability:** Smaller and lighter than flagship instruments, point-and-shoot operation
 - Calibration:** iCAL 2.0 system allows single-sample standardization in under 5 minutes, stable performance despite temperature changes
 - Automation:** Optional TCP-IP interface for high sample throughput
 - Advantages:** Combines handheld convenience with wide analytical range and fast results, suitable for PMI (positive material identification) on-site
- Belec Compact Port HLC**
 - Technology:** Mobile OES with multiple sparking probes
 - Capabilities:** Flexible analysis for various steel shapes and applications, including pipes, scrap yards, and production lines
 - Portability:** Robust design with trolley, battery-powered for mobile use, operated by a single person
 - User Interface:** Intuitive touchscreen, heat-stabilized climatic chamber for consistent results
 - Advantages:** High flexibility, accurate results in diverse field conditions, supports multiple probes for different ap...

Article Content

Handheld XRF Spectrometers for Elemental Analysis | Bruker

Handheld/Mobile/Portable XRF Spectrometers Handheld / portable X-ray fluorescent (XRF) analyzers have the capability to non-destructively quantify or qualify nearly any element from Magnesium to

Elemental Analysis Solutions & Analytical Instruments | SPECTRO

SPECTRO is a global leading supplier of advanced analytical instruments like ICP, Arc Spark OES, and XRF spectrometers for precise elemental analysis of materials.

Portable fiber-optic laser-induced breakdown spectroscopy system for ...

In this paper, we developed a portable laser-induced breakdown spectroscopy (LIBS) using an optical fiber to deliver laser energy and used it to quantitatively analyze minor elements in

Portable handheld spectrometers

The SciAps PowerHouse X is a portable benchtop XRF spectrometer that offers on-site elemental analysis. Its 80 kV X-ray tube allows for enhanced sensitivity and

Niton Portable Analyzer Models

Handheld LIBS Thermo Scientific Niton Apollo Handheld LIBS Analyzer Confidently perform elemental analysis, identify various steel grades, and enhance productivity while transforming traditional cart

XRF Technology in the Field/XRF Technology for Non-scientists

X-ray Fluorescence (XRF) XRF occurs when a fluorescent (or secondary) sample that is being excited by a primary X-ray fluorescence is unique to the elemental composition excellent technology for

Elemental analyzers

These instruments deliver fast, accurate, and non-destructive analysis in a rugged, portable form factor. The PowerHouse X offers enhanced speed and durability,

Methodology and applications of elemental mapping by laser induced ...

The dispersive optical arrangement of spectrometers used for elemental imaging is no different from regular LIBS analysis. The choice of the optical setup of the spectrometer is dictated by

Portable XRF Metal Analyzer

Product description Meet your metal analysis needs anywhere with the JITA19201 Handheld XRF Analyzer. This rugged 245x250x90mm portable spectrometer delivers fast, precise elemental

Research progress on portable laser-induced breakdown spectroscopy

Abstract As a new rapid element analysis technique, Laser-Induced Breakdown Spectroscopy (LIBS) has proven itself to have great potential for applications in increasingly numerous industrial fields.

Handheld LIBS Analysers | Portable Analytical Solutions

Perform elemental analysis in just seconds, not hours. With handheld LIBS analysers, you can conduct rapid, on-the-spot testing without waiting for lab

EVDENT Handheld Alloy Analyzer – Portable EDXRF Spectrometer

Overview The EVDENT Handheld Alloy Analyzer is a field-deployable Energy Dispersive X-Ray Fluorescence (EDXRF) spectrometer engineered for rapid, non-destructive elemental composition

TITAN Handheld XRF Analyzer | Bruker

TITAN: Power Over the Elements This high-performance handheld X-ray Fluorescence (XRF) gun makes ultra-fast, highly-accurate elemental analysis possible everyday, by anyone, and even in

Analytical Instruments

SPECTRO is a leading supplier of X-ray fluorescence (XRF), ICP-OES/AES, and Arc/Spark-OES instruments for science and industry. SPECTRO'S floor standing, bench top, portable, and handheld

Mobile optical emission spectrometer ferro.lyte®

Thanks to the low weight of 16 kg and the compact design, ferro.lyte offers optimal conditions for ad-hoc analysis or positive material identification (PMI) at locations that are difficult to access. It is the

Portable XRF Metal Analyzer

This rugged 245x250x90mm portable spectrometer delivers fast, precise elemental identification in the field. The 50kV X-ray tube and high sensitivity Si-PIN diode

Portable Metal Analyzer

It accurately analyzes elements such as carbon, sulfur, phosphorus, and boron. It's as fast as an XRF, with many analyses taking only a few seconds. And it enables effortless point-and-shoot

Laser Induced Breakdown Spectroscopy for Elemental Analysis in

These experiments can be considered as early precursors of Laser Induced Breakdown Spectroscopy (LIBS) and since then LIBS has shown its huge potential as an effective technique for

Handheld X-Ray Fluorescence Spectrometer (XRF)

A handheld X-ray fluorescence spectrometer (XRF) is a portable, non-destructive, rapid elemental analysis instrument that can directly determine the elemental

Mobile optical emission spectrometer ferro.lyte®

ferro.lyte® is a mobile spectrometer, optimized for use in metal production, metal processing and metal recycling. It uses the principle of optical emission spectrometry (OES) with spark excitation.

Amazon : Xrf Metal Analyzer

Portable XRF Metal Analyzer - Handheld 50kV Spectrometer - Fast Elemental Identification - Si-PIN Diode Detector - 6 Filters Peltier Cooling - Alloy Steel Precious Metals Mining Recycling Save 5% on

Contact Us

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