Brands of Metal Analysis Spectrometers

Overview

Best Spectrometer for Metal Analysis in 2026 This research report provides a comprehensive analysis of the best-selling spectrometers used for metal analys.

Key Takeaways

Leading brands for metal analysis spectrometers include Thermo Fisher Scientific, SPECTRO, Agilent, Shimadzu, LECO, Hitachi, B&W Tek, and Metal Power Analytical.

Key Manufacturers and Their Technologies

Thermo Fisher Scientific is a global leader offering a wide range of spectrometers for metal analysis, including handheld XRF devices for field testing and benchtop units for laboratory precision, known for fast, non-destructive analysis.

SPECTR

O specializes in Optical Emission Spectroscopy (Arc/Spark OES), Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES), ICP Mass Spectrometry (ICP-MS), and X-ray Fluorescence (XRF), serving industries from metals to pharmaceuticals with over 50,000 instruments installed worldwide. Agilent and Shimadzu provide high-precision laboratory spectrometers, including ICP-OES and ICP-MS systems, widely used for elemental analysis in research and industrial quality control.

LEC

O and Hitachi manufacture both benchtop and portable spectrometers, focusing on reliable elemental analysis for metals, including low-alloy steels and non-ferrous materials.

B&

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W Tek is known for Raman and portable spectrometers, offering affordable, mobile solutions for rapid metal identification and analysis. Metal Power Analytical (India) produces rugged Mobile OES and Rotating Disc Electrode (RDE) spectrometers, with integrated digital solutions for Industry 4. 0 applications, enabling on-site metal analysis and laboratory management.

Other notable manufacturers include Ibsen Photonics, specializing in grating-based spectrometer modules, and Spectrometer Technologies, which focuses on high-end analyzers for mining and mineral industries. Types of Spectrometers OfferedHandheld/Portable XRF: Ideal for field PMI (Positive Material Identification) and rapid, non-destructive testing. Benchtop OES/ICP: High-precision laboratory instruments for detailed elemental analysis.

Specialty Spectrometers: Designed for light element detection (e.g., carbon) or ultra-compact spark emission analysis.

Laser-

Induced Breakdown Spectroscopy (LIBS): Used for fast, multi-element analysis in industrial and research settings. These brands collectively cover a broad spectrum of applications, from routine quality control in metal fabrication to advanced research requiring high sensitivity and precision.

Article Content

Best Spectrometer for Metal Analysis in 2026

This research report provides a comprehensive analysis of the best-selling spectrometers used for metal analysis, covering market trends, leading technologies, and key product offerings for

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.

Metal analyzer

Find your metal analyzer easily amongst the 58 products from the leading brands (EVIDENT, Thermo Fisher, ABB, ...) on DirectIndustry, the industry specialist for your professional purchases.

Top 100 Spectrometer Manufacturers in 2026 | ensun

Identify and compare relevant B2B manufacturers, suppliers and retailers. Max. SPECTRO is a leading provider of spectrometers, offering a range of solutions

Top 10 Spectrometer Brand & Manufacturers

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This section provides a list of the top 10 Spectrometer manufacturers, Website links, company profile, locations is provided for each company. Also provides a detailed product description of the

Elemental Analysis | Spectrometer Manufacturers

Technical insights on spectrometry, metal analysis, and industrial quality control. Download our product brochures, software, whitepapers and other industry

Metal Identification Tool for elemental analysis | Alloytester

Optimize your Metal Testing with TITAN Bruker''s Handheld and portable XRF analyzers allow for rapid metal identification, engineered for ease of use,

2026 Global Spectrometer Market Reshuffle: How Chinese Spectrometers ...

Chinese Spectrometers Abroad: Opportunities, Challenges, and a Clear Path Forward As the global market restructures, Chinese spectrometer manufacturers are entering a historic window of

ARUN Technology

ARUN Technology is a global leader in metal analysis, specialising in advanced CMOS detector desktop OES spectrometers and handheld LIBS metal analysers. As the Centre of Excellence for Product

Metal analysis spectrometer

Find your metal analysis spectrometer easily amongst the 40 products from the leading brands (Thermo Fisher, LECO, Malvern Panalytical, ...) on DirectIndustry, the industry specialist for your professional

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Optical Emission Spectroscopy | SPECTRO Analytical

Optical emission spectroscopy using arc and spark excitation (Arc Spark OES) is the preferred method for trace metal analysis to determine the chemical composition of metallic samples. This process is

Best Spectrometer for Metal Analysis in 2026

Discover the top spectrometers for metal analysis best sellers in 2026. Compare handheld XRF, benchtop, and Spark OES models. Click to explore high-accuracy, non-destructive

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Mobile Metal Analyzer

For onsite metal analysis, SPECTRO offers a complete range of mobile metal analyzer products, from handheld XRF to portable Arc Spark OES spectrometers.

Portable XRF Metal Analyzer

Meet your metal analysis needs anywhere with the JITAI9201 Handheld XRF Analyzer. This rugged 245x250x90mm portable spectrometer delivers fast, precise elemental identification in the field.The

Elemental Analysis | Spectrometer Manufacturers & Suppliers

Metal Power Analytical provides world-class spectrometers, metal analysis instruments, and OES technology for steel plants, foundries, and industries worldwide.

Metal Spectrometer

A metal analysis spectrometer is an instrument used to determine the elemental composition of metal samples. These devices, often optical emission

The Best Atomic Absorption Spectroscopy (AAS) Systems of 2026

The best Atomic Absorption Spectroscopy (AAS) systems of 2026 combine robust hardware with intelligent software to streamline trace metal analysis in environmental,

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