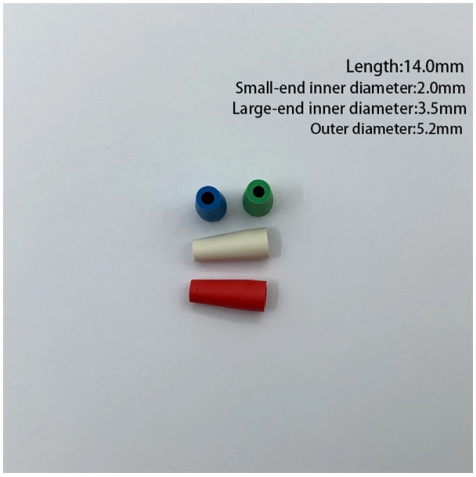
Wdx Spectrometer Price



Overview

Find top wdx spectrometer options with high spectral resolution, multi-crystal analyzers, and automated sample changers. Compare verified suppliers, pricing, and specs.

Key Takeaways

WDX spectrometers typically range from $50,000 for compact benchtop models to over $250,000 for high-end industrial systems.

Price Overview

The cost of a Wavelength Dispersive X-ray (WDX) spectrometer varies widely depending on the model, features, and intended application. Compact or benchtop systems designed for smaller laboratories or quality control in industries like cement, steel, or petrochemicals generally start around $50,000 to $80,000. Larger, high-performance industrial-grade spectrometers with multi-channel analyzers, high spectral resolution, and automated sample changers can exceed $200,000 to $250,000.

Factors Affecting Price

Number of Channels and Elements: Multi-channel systems capable of analyzing 10 or more elements simultaneously are more expensive than single-channel or sequential models. Detection Limits and Resolution: Higher resolution (4–20 eV) and lower detection limits (ppm or ppb) increase cost, as these features require advanced crystal monochromators and detectors. Automation and Software: Systems with automated sample changers, AI-assisted data interpretation, and advanced guidance software command higher prices.

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Application-

Specific Configurations: Spectrometers preconfigured for petroleum, cement, or slag analysis may include specialized calibration and accessories, affecting cost. Maintenance and Consumables: X-ray tube replacements, detector gas replenishment, and annual servicing add to the total cost of ownership.

Market Context

The global WDX spectrometer market exceeds $1. 2 billion annually, with growth driven by quality control demands in metals, mining, cement, and petrochemical industries.

Asia-

Pacific, particularly China and India, dominates consumption, followed by Europe and North America. Technological advancements focus on improving detection limits, reducing analysis times, and integrating AI-assisted software, which can influence pricing trends.

Summary

For budgeting purposes, expect entry-level benchtop WDX spectrometers to cost around $50,000–$80,000, while high-end industrial systems can exceed $250,000, with additional costs for maintenance, calibration, and consumables. Selecting the right system requires balancing analytical requirements, throughput, and long-term operational costs.

Article Content

wdx spectrometer: High-Resolution Analysis Tools

Find top wdx spectrometer options with high spectral resolution, multi-crystal analyzers, and automated sample changers. Compare verified suppliers, pricing, and specs. Click to discover the best match

Wavelength Dispersive Spectrometers

Instruments that employ wavelength dispersive x-ray spectroscopy to obtain elemental information about a material by measuring characteristic x-rays within a small wavelength range without destroying the

ARL™ OPTIM''X WDXRF Spectrometer WDXRF

The Thermo Scientific™ ARL™ OPTIM''X WDXRF Spectrometer provides all the benefits of wavelength dispersive x-ray fluorescence (WDXRF), one of the most

WDXRF Spectrometers from Rigaku

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Affordable, high-end, tube-above Industrial WDXRF for the analysis of solid samples. High-power, tube-below, sequential WDXRF spectrometer with new

Peak Instruments WDX Wavelength Dispersive Spectrometer

Peak Instruments WDX Wavelength Dispersive Spectrometer labratparts (533) 100% positive

WDXRF | Wavelength Dispersive X-Ray Fluorescence

The basic concept of all spectrometers is a radiation source, a sample and a detection system. In WDXRF spectrometers, the X-ray tube acting as a

Supermini200

As a high-power benchtop sequential wavelength dispersive X-ray fluorescence (WDXRF) spectrometer, for elemental analysis of oxygen (O) through uranium (U) in almost any material, the Supermini200

X-Ray Fluorescence Spectrometers / XRF Analyzers

X-Ray Fluorescence Spectrometer (XRF Analyzer) X-ray fluorescence spectrometers use high-energy X-rays (or gamma rays) to excite fluorescent radiation from a sample for quantitative chemical or

Wavelength-Dispersive X-ray Fluorescence

WDX 400 Compact Multi-channel X-Ray Fluorescence Spectrometer features for 10 fixed light diffraction channels, with 10 arbitrary elements defined by the users

EDX-8100

Energy Dispersive X-ray Fluorescence Spectrometer Price Inquiry Product Inquiry Technical Service / Support Inquiry Other Inquiry

XRF Spectrometer New & Used Prices

XRF Spectrometer XRF spectrophotometers are essential analytical instruments used for elemental analysis in a variety of industries, including environmental testing, mining, pharmaceuticals, and

WDX Spectrometer at ₹ 9000000 | X-Ray Fluorescence

IZA Analytics - Offering WDX Spectrometer,X-Ray Fluorescence Spectrometer in New Delhi, Delhi. Also get XRF Spectrometers price list from verified companies

Wavelength Dispersive X-ray Fluorescence

Wavelength Dispersive X-ray Fluorescence Spectrometer DW-WDX200 (For Cement testing instruments) DW-WDX200 Compact Multi-channel X-ray

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Skyray Wdx200 Wdxrf Spectrometer for Cement Quality

Instrument introduction WDX-200 Small Multi-channel X-Ray Fluorescence Spectrometer features for 10 fixed light diffraction channels, 10 elements being

EDX-8100 : Shimadzu (Europe)

The EDX-8100 offers enhanced versatility with the ability to analyze even light elements in liquid samples with high sensitivity by helium purging.

Xrf Cement Analyzer Wdxrf Cement Tester

Xrf Cement Analyzer Wdxrf Cement Tester, Find Details and Price about Spectrometer and Wdx Instrument Cement Analysis from Jiangsu Skyray

EDX-8100 Energy Dispersive X-ray Fluorescence Spectrometer from ...

Product Details Item EDX-8100 Energy Dispersive X-ray Fluorescence Spectrometer Company Shimadzu Price Get Quote Catalog Number EDX-8100 Quantity EA Detector (s) SDD detector

SEM-EDS/WDS analysis | gems-inclusions

Wavelength-dispersive X-ray spectroscopy (WDX or WDS) is a spectroscopic technique widely used to identify the chemical composition of a sample both locally and in an area, providing compositional

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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