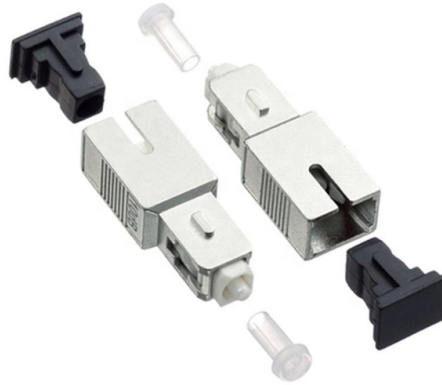


Spectrum Analyzer Disk Electrode



Overview

Spectro's Rotating Disk Electrode (RDE) technology is a robust, proven spectroscopic technique designed to simultaneously analyze wear, additives and contaminants in mineral or synthetic petroleum-based products, compliant with ASTM D6595 and D6728. SpectroOil 100 Series is a precision benchtop RDE-OES elemental analyzer for lubricants, fuel, coolants and water. Up to 32 elements are measured fully automatically. Analytichem manufactures and distributes analytical equipment, reagents, and certified reference materials for the inorganic analytical laboratories market. The company manufactures microwave digestion systems, sample preparation instruments, environmental analyzers (for BOD, COD and Soil. The OA800 Rotating Disk Electrode Atomic Emission Spectrometer analyzes wear metals and contaminants in liquids like lubricants and fuels in under two minutes, requiring no auxiliary gases or cooling water, making it ideal for naval and field operations. By using a rotating electrode, the steady-state mass transport regime can be reached, for which the extent of the reaction depends on the rotation rate of the. Our OES spectrometers employ the time-proven rotating disc electrode (RDE) sample delivery technique. This technique remains the most effective and widely accepted method for detection and quantification of wear metal particles, contaminants, and additives. The rotating electrode "wicks up" sample.



Article Content

Jul 03, 2025

Analysis and interpretation of Energy-Dispersive X-Ray

An energy-dispersive (EDS) detector is used to separate the characteristic x-rays of different elements into an energy spectrum, and EDS

Sep 10, 2025

Distribution of relaxation times analysis of rotating disk electrode ...

Distribution of Relaxation Times (DRT) analysis is a tool for evaluating electrochemical impedance spectroscopy (EIS) data. In recent years, there has been a notable increase in the

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Electrochemical Impedance Spectroscopy

FOUR-ELECTRODE CELL A four-electrode cell is used to analyze processes occurring within the electrolyte, e.g., between two electrodes separated by a membrane. In this configuration, the current

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RDE-OES SPECTROMETER FOR ELEMENTAL ANALYSIS

ERAOIL is the first and most advanced stand-alone rotating disc electrode spectrometer analyzing wear metals, additives, and contaminants in all kinds of operating liquids, like lubri-cating oils, fuels,

Apr 08, 2026

Understanding basic spectrum analyzer operation

R& S®Essentials | Spectrum analyzers fundamentals Understanding basic spectrum analyzer operation Author: Paul Denisowski, Test & measurement expert The

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Theory | MOA Instrumentation, Inc.

Our OES spectrometers employ the time-proven rotating disc electrode (RDE) sample delivery technique. This technique remains the most effective and widely

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Spectroil Q100

Spectro's Rotating Disk Electrode (RDE) technology is a robust, proven spectroscopic technique designed to simultaneously analyze wear, additives and contaminants in mineral or synthetic

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OVERVIEW OF ROTATING DISC ELECTRODE (RDE) OPTICAL EMISSION SPECTROSCOPY ...

Rotating Disc Electrode Optical Emission Spectroscopy (RDEOES) Spectrometers that look at the multitude of spectral lines from a heated (or “excited”) sample are called optical emission spectrom

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DITEE OA800 Rotating Disc Electrode Optical Emission Spectrometer

The OA800 Rotating Disc Electrode Atomic Emission Spectrometer analyzes wear metals and contaminants in liquids like lubricants and fuels in under two minutes, requiring no auxiliary gases or

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Advanced Rotating Disk Electrode Methodologies

Explore the cutting-edge methodologies and future directions in Rotating Disk Electrode (RDE) techniques, enhancing electrochemical analysis and characterization in various fields.

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SpectrOil 100 Series

SpectrOil 100 Series is a precision benchtop RDE-OES elemental analyzer for lubricants, fuel, coolants and water. The SpectrOil 100 Rotating Disc Electrode

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Dielectric Spectroscopy

Figure 1: Sketch of the MFIA with a third-party dielectric test fixture where a disc sample is inserted between the electrodes. The grey box represents a third-party

Nov 18, 2025

Distribution of relaxation times analysis of rotating disk electrode ...

Abstract Distribution of relaxation times (DRT) is a valuable analytical tool to identify and quantify individual contributions in electrochemical impedance spectroscopy (EIS) data. This study

Aug 29, 2025

Rotating Disk Electrode & Graphite Rods

SCP SCIENCE manufactures supplies and standards for ICP, AA, and XRF analysis plus sample preparation systems including Graphite Block and Microwave Digestion systems. Our Environmental

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Electrochemical Impedance Spectroscopy–A Tutorial

Simulated impedance plots for a rotating disk electrode experiment at different angular velocity values, of a reflective boundary element for increasing values of the diffusion related

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Mastering Rotating Disk Electrode Techniques

Unlock the potential of Rotating Disk Electrode (RDE) in analytical chemistry. Learn the fundamentals, applications, and best practices for precise electrochemical measurements.

May 09, 2026

Rotating Disk Electrode & Graphite Rods

The company manufactures microwave digestion systems, sample preparation instruments, environmental analyzers (for BOD, COD and Soil analysis), specialized glassware for the atomic

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Electrochemical impedance spectroscopy

Abstract | Electrochemical impedance spectroscopy (EIS) is a powerful tool to investigate properties of materials and electrode reactions. This Primer provides a guide to the use of EIS and a ...

Aug 28, 2025

Rotating Disk Electrodes: their value and use

The Rotating Disk Electrode is a widely used device in electrochemistry research? But what exactly makes it so useful? This article

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