

# High-Frequency Infrared Carbon Sulfur Analyzer

This high-frequency infrared carbon sulfur analyzer features automatic constant pressure oxygen supply and a high-frequency induction furnace. It accurately analyzes carbon and sulfur content by oxidizing samples and measuring CO<sub>2</sub> and SO<sub>2</sub> levels with infrared detectors.



## ADDITIONAL IMAGES



## Overview

### High-Frequency Infrared Carbon Sulfur Analyzer

The CS-9000 series is a high-precision analytical instrument designed for the rapid and reliable determination of carbon and sulfur content in various materials. By utilizing high-frequency induction combustion and advanced infrared detection, the system oxidizes samples into CO<sub>2</sub> and SO<sub>2</sub> for precise measurement. This series features an integrated automatic dust removal function and robust software control, making it an essential tool for metallurgy, geology, and quality control laboratories.

## Technical Specifications

Analysis Time	40 s
Measuring Principle	High-frequency combustion infrared absorption method
Gas Requirements	Pure Oxygen 99.5%, Nitrogen or Compressed Air (Water-free)
Power Supply	220V ±5%
Dimensions	565 × 465 × 720 mm
Weight	85 kg

## Performance Comparison

### Key Performance Metrics

Metric	CS-9001 (High Precision)	CS-9002 (Integrated)
Carbon Repeatability (RSD)	d 0.5%	d 0.4%
Sulfur Repeatability (RSD)	d 1.5%	d 1.0%
Sensitivity	0.1 ppm	0.1 ppm

## Software Features

### System Capabilities

- Stores up to 80 carbon & sulfur curves
- Multi-authority user privilege control
- Automatic database recording with Excel export
- Single-point or multi-point calibration
- Integrated self-test and alarm functions

## Optional Accessories

### Detection Modules

Double Sulfur Detector • Double Carbon Detector • CO Detector • Carbon & Sulfur Detector