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Global Portable Soil Nutrient Analyzer Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/GA6AE3FFE466EN.html
Date: September 2026
Pages: 132
Price: US$ 4,480.00 (Single User License)
ID: GA6AE3FFE466EN

Abstracts

The global Portable Soil Nutrient Analyzer market size is expected to reach $ 187 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

Portable Soil Nutrient Analyzers are compact field or mobile-laboratory instruments used to rapidly determine nitrogen, phosphorus, potassium and other soil-fertility indicators outside a conventional fixed laboratory.

The equipment may use colorimetric photometry, ion-selective electrodes, electrochemical sensing, near-infrared spectroscopy or hybrid multi-sensor technologies. Depending on the analytical method, soil samples may be measured directly, converted into an extract or prepared with dedicated reagents before analysis.

The 2025 ASP is US$1,200 per unit, global sales volume is approximately 87.208k units, and the estimated average gross margin is approximately 37%.

The upstream chain includes optical components, light sources, ion-selective electrodes, sensors, microprocessors, batteries, displays, reagents, sample-preparation components and analytical software. Midstream activities include instrument design, calibration development, algorithm development, device assembly, reagent formulation, testing and software integration. Downstream users mainly include farms, agricultural service providers, cooperatives, fertilizer companies, government extension agencies, research institutions, horticultural producers and environmental organizations.

The global development of precision agriculture and variable-rate fertilization is driving demand for on-site soil nutrient testing. Farms and agricultural services are looking to

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shorten the time from sampling to obtaining results, enabling soil data to be incorporated more quickly into fertilization, planting, and crop management decisions. The growth of the global soil testing equipment market is also primarily driven by investments in precision and sustainable agriculture.

North America and Europe remain key application areas for specialized portable analyzers. Local commercial farms, agronomic consulting firms, and research institutions place greater emphasis on testing accuracy, data traceability, and connectivity with farm management software. The EU's Soil Monitoring Act, which came into effect in December 2025, requires member states to strengthen soil health monitoring and assessment, and is expected to continue driving demand for soil testing and data collection.

The Asia-Pacific region is experiencing rapid growth. China, India, and Southeast Asia are advancing soil testing and fertilizer recommendation, soil health management, smart agriculture, and the development of grassroots agricultural service systems. India's Soil Health Card program continues to include soil sample collection, testing, and fertilizer recommendations, promoting the development of grassroots testing equipment and mobile testing capabilities.

Spectroscopic technology, artificial intelligence, and cloud databases are becoming important development directions in the high-end market. Portable near-infrared scanners can combine on-site scanning results with regional soil databases and calibration algorithms to generate nutrient analysis and fertilizer recommendations within minutes. Companies like AgroCares have integrated handheld scanning devices, applications, and database services into complete products.

Industry competition is forming two distinct tiers: one is low-priced digital probes and basic NPK analyzers, primarily meeting the needs of rapid screening and small-scale planting; the other is equipment requiring standardized sample processing, calibration databases, or specialized optical systems, mainly targeting agricultural technical services, research, and commercial agriculture. The professional market prioritizes consistency with standard laboratory results rather than simply pursuing the lowest purchase price.

Report Scope

This report studies the global Portable Soil Nutrient Analyzer production, demand, key

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manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Portable Soil Nutrient Analyzer and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Portable Soil Nutrient Analyzer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Portable Soil Nutrient Analyzer total production and demand, 2021-2032, (K Units)

Global Portable Soil Nutrient Analyzer total production value, 2021-2032, (USD Million)

Global Portable Soil Nutrient Analyzer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Portable Soil Nutrient Analyzer consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Portable Soil Nutrient Analyzer domestic production, consumption, key domestic manufacturers and share

Global Portable Soil Nutrient Analyzer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Portable Soil Nutrient Analyzer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Portable Soil Nutrient Analyzer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Portable Soil Nutrient Analyzer market based on the following parameters - company overview, production, value, price, gross

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margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AgroCares B.V., STEP Systems GmbH, Hanna Instruments, Inc., LaMotte Company, HORIBA, Ltd., BIOBASE Group, Zhejiang TOP Cloud-agri Technology Co., Ltd., Nanbei Instrument Limited, Shandong Fengtu IOT Technology Co., Ltd., Shandong Yuntang Intelligent Technology Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Portable Soil Nutrient Analyzer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Portable Soil Nutrient Analyzer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Market Segmentation

Global Portable Soil Nutrient Analyzer Market, Segmentation by Type:

Colorimetric and Photometric Analyzers

Ion-Selective Electrode Analyzers

Near-Infrared Spectroscopic Analyzers

Hybrid Multi-Sensor Analyzers

Global Portable Soil Nutrient Analyzer Market, Segmentation by Data Connectivity:

Local Data-Logging Analyzers

Smartphone-Connected Analyzers

Cloud-Connected Analyzers

Global Portable Soil Nutrient Analyzer Market, Segmentation by Test Throughput:

Single-Sample Analyzers

2–4 Sample Analyzers

6–8 Channel Analyzers

Above 8 Channel Analyzers

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Global Portable Soil Nutrient Analyzer Market, Segmentation by Application:

Farms

Agricultural Service Providers

Cooperatives

Fertilizer Companies

Others

Companies Profiled:

AgroCares B.V.

STEP Systems GmbH

Hanna Instruments, Inc.

LaMotte Company

HORIBA, Ltd.

BIOBASE Group

Zhejiang TOP Cloud-agri Technology Co., Ltd.

Nanbei Instrument Limited

Shandong Fengtu IOT Technology Co., Ltd.

Shandong Yuntang Intelligent Technology Co., Ltd.

Shandong Hengmei Electronic Technology Co., Ltd.

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Key Questions Answered

1. How big is the global Portable Soil Nutrient Analyzer market?
2. What is the demand of the global Portable Soil Nutrient Analyzer market?
3. What is the year over year growth of the global Portable Soil Nutrient Analyzer market?
4. What is the total value of the global Portable Soil Nutrient Analyzer market?
5. Who are the Major Players in the global Portable Soil Nutrient Analyzer market?
6. What are the growth factors driving the market demand?

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