

Global Compaction Permeameter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Compaction Permeameter market size is expected to reach \$ 97 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

A compaction permeameter is a specialized geotechnical instrument that combines standard compaction with permeability testing. It is used in the laboratory to simulate and determine the permeability coefficient of compacted soil (especially cohesive soils used in embankments, roadbeds, or earthen dams) at specific compaction degrees and moisture contents. It overcomes the disturbance to the soil sample structure caused by traditional methods (compacting first, then moving the sample for permeability testing), providing more realistic and faster access to key parameters of the seepage prevention performance of compacted engineering soil under actual conditions. This provides direct and reliable data for seepage prevention design in embankment projects, landfill linings, and earth-rock dam core walls. Upstream suppliers primarily provide precision machining and control systems, offering customized compaction hammers, detachable permeation molds, pressure/flow sensors, and data acquisition modules. Downstream suppliers are highly concentrated in large civil engineering laboratories, design institutes in the water conservancy, hydropower, and transportation industries, environmental geotechnical engineering consulting companies, and related research teams in universities, serving the entire chain from material ratio optimization and seepage prevention design to construction quality control. In 2025, the production of compaction permeation equipment is expected to reach approximately 4,500 units, with an average price of approximately US\$15,000 per unit, a gross profit margin of approximately 40%, and a single-line capacity of 120 units per year.

This report studies the global Compaction Permeameter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Compaction Permeameter 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 Compaction Permeameter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Compaction Permeameter total production and demand, 2021-2032, (Units)

Global Compaction Permeameter total production value, 2021-2032, (USD Million)

Global Compaction Permeameter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Compaction Permeameter consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Compaction Permeameter domestic production, consumption, key domestic manufacturers and share

Global Compaction Permeameter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Compaction Permeameter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Compaction Permeameter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Compaction Permeameter market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ELE International, Humboldt Mfg. Co., Controls Group, Gilson Company, Inc., Matest, BIOBASE, Durham Geo Slope Indicator, Y?ksel Kaya Makina, Dick King Lab Supplies (Pty) Ltd, Zhuozhou Tianpeng imp. and exp. trade 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 Compaction Permeameter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Compaction Permeameter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Compaction Permeameter Market, Segmentation by Type:

Variable-Head Compaction Permeameter

Constant-Head Compaction Permeameter

Global Compaction Permeameter Market, Segmentation by Methods of Applying Pressure:

Impact (Dynamic) Compaction Permeameter

Static Compaction Permeameter

Kneading Compaction Permeameter

Global Compaction Permeameter Market, Segmentation by Automation Level:

Manual

Automatic

Global Compaction Permeameter Market, Segmentation by Application:

Environmental Geotechnical Engineering

Hydraulic and Hydropower Engineering

Civil Engineering

Other

Companies Profiled:

ELE International

Humboldt Mfg. Co.

Controls Group

Gilson Company, Inc.

Matest

BIOBASE

Durham Geo Slope Indicator

Y?ksel Kaya Makina

Dick King Lab Supplies (Pty) Ltd

Zhuozhou Tianpeng imp. and exp. trade co., ltd

Nanjing Soil Instrument Factory Co., Ltd.

Shanghai Mayoo Instrument Equipment Co., Ltd.

Zhejiang Soil Instrument Manufacturing Co., Ltd.

Tianjin Gangyuan Testing Instrument Factory

Nanjing Huade Soil Instrument Manufacturing Co., Ltd.

Key Questions Answered:

1. How big is the global Compaction Permeameter market?
2. What is the demand of the global Compaction Permeameter market?
3. What is the year over year growth of the global Compaction Permeameter market?
4. What is the production and production value of the global Compaction Permeameter market?
5. Who are the key producers in the global Compaction Permeameter market?
6. What are the growth factors driving the market demand?

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