

Global Compaction Permeameter Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Compaction Permeameter market size was valued at US\$ 69.45 million in 2025 and is forecast to a readjusted size of US\$ 97 million by 2032 with a CAGR of 4.9% during review period.

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 is a detailed and comprehensive analysis for global Compaction Permeameter market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Compaction Permeameter market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Compaction Permeameter market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Compaction Permeameter market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Compaction Permeameter market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Compaction Permeameter

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Compaction Permeameter market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Compaction Permeameter market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Variable-Head Compaction Permeameter

Constant-Head Compaction Permeameter

Market segment by Methods of Applying Pressure

Impact (Dynamic) Compaction Permeameter

Static Compaction Permeameter

Kneading Compaction Permeameter

Market segment by Automation Level

Manual

Automatic

Market segment by Application

Environmental Geotechnical Engineering

Hydraulic and Hydropower Engineering

Civil Engineering

Other

Major players covered

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.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Compaction Permeameter product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Compaction Permeameter, with price, sales quantity, revenue, and global market share of Compaction Permeameter from 2021 to 2026.

Chapter 3, the Compaction Permeameter competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Compaction Permeameter breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021

to 2026.and Compaction Permeameter market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Compaction Permeameter.

Chapter 14 and 15, to describe Compaction Permeameter sales channel, distributors, customers, research findings and conclusion.

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