

Global Particle Hardness Testers 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 Particle Hardness Testers market size was valued at US\$ 130 million in 2025 and is forecast to a readjusted size of US\$ 190 million by 2032 with a CAGR of 5.4% during review period.

A particle hardness tester is a specialized mechanical testing device used to determine the crushing force, displacement, and stress-strain characteristics of a single particle or particle group during compressive crushing. Typical objects include carbon black, catalyst carriers, pharmaceutical tablets, feed pellets, and various functional pellets. Technically, a particle hardness tester typically consists of a high-precision loading mechanism, a force and displacement sensing system, an imaging unit, and test control and data analysis software. It can perform particle-by-particle testing or automatically sample and continuously test a certain number of particles. This instrument evaluates the hardness characteristics of granular materials through pressure or indentation depth measurements, helping manufacturers and users understand the strength and suitability of the materials.

In 2025, global Particle Hardness Tester sales reached approximately 67,645 Units, with an average global market price of around 1,868 US\$/Units. Production capacity reached 100 K Units, with a gross profit margin of approximately 45%.

Upstream, particle hardness testers rely on key components such as high-performance force sensors, precision lead screws and servo drive parts, wear-resistant mold materials, and industrial cameras to support data accuracy and test repeatability. Seishin Enterprise includes hardness testers in its powder equipment product portfolio, encompassing crushing, grading, and granulation equipment, working in conjunction

with sieving and jet milling equipment to provide a complete process chain for powder processing, reflecting the vertical extension of upstream powder engineering companies into testing instruments. In the midstream complete machine manufacturing sector, ASAHI covers carbon black and other spherical particles with particle hardness testers such as the AS2000-L and AS2100, equipped with PC acquisition and testing procedures compliant with JIS, ISO, and ASTM standards. HITEC Luxembourg's IPHT system is built around automatic single-particle sample loading, automatic calibration, and standardized compression modes, providing multi-parameter measurement capabilities for particle hardness, diameter, and stiffness. Unichim's IPG-1M hardness tester measures the crushing force of particles under static crushing conditions, conforming to the Russian standard GOST, further demonstrating the influence of regional standards on product form.

This report is a detailed and comprehensive analysis for global Particle Hardness Testers 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 Particle Hardness Testers market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global Particle Hardness Testers market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (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 Particle Hardness Testers

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 Particle Hardness Testers 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 ASAHI, HITEC Luxembourg, Seishin Enterprise, Unichim, TITAN, etc.

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

Market Segmentation

Particle Hardness Testers 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

Full Automatic

Semi-Automatic

Market segment by Particle Size

0.5 mm-1 mm

1 mm-2 mm

Others

Market segment by Application

Carbon Black

Rubber

Feed

Drugs

Others

Major players covered

ASAHI

HITEC Luxembourg

Seishin Enterprise

Unichim

TITAN

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 Particle Hardness Testers product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Particle Hardness Testers 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 Particle Hardness Testers 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 Particle Hardness Testers.

Chapter 14 and 15, to describe Particle Hardness Testers sales channel, distributors, customers, research findings and conclusion.

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