

Global Particle Hardness Testers Market Growth 2026-2032

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Abstracts

The global Particle Hardness Testers market size is predicted to grow from US\$ 124 million in 2025 to US\$ 184 million in 2032; it is expected to grow at a CAGR of 5.8% from 2026 to 2032.

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, ASAHl 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.

LP Information, Inc. (LPI) 's newest research report, the "Particle Hardness Testers Industry Forecast" looks at past sales and reviews total world Particle Hardness Testers sales in 2025, providing a comprehensive analysis by region and market sector of projected Particle Hardness Testers sales for 2026 through 2032. With Particle Hardness Testers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Particle Hardness Testers industry.

This Insight Report provides a comprehensive analysis of the global Particle Hardness Testers landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Particle Hardness Testers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Particle Hardness Testers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Particle Hardness Testers and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Particle Hardness Testers.

This report presents a comprehensive overview, market shares, and growth opportunities of Particle Hardness Testers market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Full Automatic

Semi-Automatic

Segmentation by Particle Size:

0.5 mm-1 mm

1 mm-2 mm

Others

Segmentation by Application:

Carbon Black

Rubber

Feed

Drugs

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

ASAHI

HITEC Luxembourg

Seishin Enterprise

Unichim

TITAN

Key Questions Addressed in this Report

What is the 10-year outlook for the global Particle Hardness Testers market?

What factors are driving Particle Hardness Testers market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Particle Hardness Testers market opportunities vary by end market size?

How does Particle Hardness Testers break out by Type, by Application?

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