

Global Particle Hardness Testers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Particle Hardness Testers market size is expected to reach \$ 190 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

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.

This report studies the global Particle Hardness Testers production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Particle Hardness Testers total production and demand, 2021-2032, (Units)

Global Particle Hardness Testers total production value, 2021-2032, (USD Million)

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

Global Particle Hardness Testers consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Particle Hardness Testers domestic production, consumption, key domestic manufacturers and share

Global Particle Hardness Testers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Particle Hardness Testers production by Type, production, value, CAGR,

2021-2032, (USD Million) & (Units)

Global Particle Hardness Testers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Particle Hardness Testers 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 ASAHI, HITEC Luxembourg, Seishin Enterprise, Unichim, TITAN, 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 Particle Hardness Testers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Particle Hardness Testers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Particle Hardness Testers Market, Segmentation by Type:

Full Automatic

Semi-Automatic

Global Particle Hardness Testers Market, Segmentation by Particle Size:

0.5 mm-1 mm

1 mm-2 mm

Others

Global Particle Hardness Testers Market, Segmentation by Application:

Carbon Black

Rubber

Feed

Drugs

Others

Companies Profiled:

ASAHI

HITEC Luxembourg

Seishin Enterprise

Unichim

TITAN

Key Questions Answered:

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

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Figure 58. Particle Hardness Testers Procurement Model

Figure 59. Particle Hardness Testers Sales Model

Figure 60. Particle Hardness Testers Sales Channels, Direct Sales, and Distribution

Figure 61. Methodology

Figure 62. Research Process and Data Source

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