

# Global High Speed Dynamic Balancing Machine 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 High Speed Dynamic Balancing Machine market size was valued at US\$ 46.30 million in 2025 and is forecast to a readjusted size of US\$ 63.45 million by 2032 with a CAGR of 4.6% during review period.

High Speed Dynamic Balancing Machine is a specialized device capable of dynamically balancing and correcting rotors or rotating components at high speeds. It is typically used for high-speed components such as steam turbines, turbo compressors, aero engines, high-speed motors, and generators. The industry generally considers 12,000 rpm as the starting point for high-speed dynamic balancing machines, with high-end models reaching 30,000-50,000 rpm or higher. Its core function is to identify and eliminate imbalances at or near the operating speed, thereby reducing vibration and improving mechanical efficiency and service life. With the development of global high-end equipment manufacturing, industrial automation, aerospace, new energy power generation, and automotive engine industries, the market demand for high-speed dynamic balancing machines continues to grow, showing trends of product upgrading, higher speed, intelligence, and digitalization. At the same time, high technological barriers and R&D investment have led to the market being mainly concentrated in a few leading companies, with the German company Schenck dominating the industry. In 2025, the global production of High Speed Dynamic Balancing Machines is estimated at around 75 units, with a unit price ranging from hundreds of thousands to millions of US dollars, an average price of about US\$600,000 per unit, and a gross profit margin of about 43.65%. These machines are suitable for balancing turbines and generators in large power plants, high-speed compressors, industrial steam and gas turbines, as well as for complex testing of engine components in the aerospace industry.

95% of the excitation forces causing excessive vibration in high-speed rotating machinery are unbalanced forces caused by poor balance of rotating components. Therefore, conducting low-speed, high-speed, and ultra-high-speed dynamic balancing experiments on rotors to ensure rotor balance accuracy is a crucial step for manufacturers of large high-speed rotating equipment in ensuring unit quality. This effectively reduces unit vibration and noise, increases operating speed, ensures safe operation, extends service life, and improves working conditions. Steam turbines, gas turbines, and aero engines are widely used as power generation and propulsion devices, and are core components in industries such as coal-fired power, gas-fired power, nuclear power, shipbuilding, warships, submarines, civil aviation, and fighter jets. Currently, related manufacturers primarily rely on imported equipment for high-speed dynamic balancing experiments. Developing domestic high-speed dynamic balancing technology and products not only has broad market prospects in my country but also holds significant strategic importance for improving the performance of domestically produced large-scale equipment and enhancing national defense and military capabilities. This niche market of high-speed dynamic balancing machines is mainly dominated by a few suppliers with deep technological expertise, such as international leaders like Schenck RoTec, and some regional technology suppliers investing continuously in mid-to-high-end R&D. With the increasing demands for high-precision balancing in aerospace, new energy power generation, high-speed trains, and automated equipment, the market penetration rate of high-speed dynamic balancing machines will further increase. Furthermore, the trends of digitalization, automation, and intelligent manufacturing are driving the integration of dynamic balancing testing systems with technologies such as intelligent monitoring and cloud analytics, enhancing equipment added value and service capabilities, thereby bringing new growth momentum to this niche market. For the upstream and downstream of the industry chain, high-speed dynamic balancing machines are not only testing equipment but also crucial infrastructure for improving manufacturing quality and reliability. Their long-term prosperity has the potential for continuous improvement against the backdrop of the overall advancement and increased reliability of high-end equipment manufacturing.

This report is a detailed and comprehensive analysis for global High Speed Dynamic Balancing Machine 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 High Speed Dynamic Balancing Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global High Speed Dynamic Balancing Machine 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 High Speed Dynamic Balancing Machine 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 High Speed Dynamic Balancing Machine 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 High Speed Dynamic Balancing Machine

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 High Speed Dynamic Balancing Machine 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 Schenck Rotec GmbH, Hofmann, Ascential Technologies, Hangzhou Jizhi Mechatronic Co., Ltd., Beijing Keeven PRECISION Testing Machinery Co., Ltd., Shanghai JianPing Balancing Machine Manufacturing Co.,Ltd, Schiak, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

## **Market Segmentation**

High Speed Dynamic Balancing Machine 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

General High Speed Dynamic Balancing Machine

Special High Speed Dynamic Balancing Machine

### Market segment by Operating Speed

High-speed Dynamic Balancing Machine (12,000rpm-30,000rpm)

Ultra-high-speed Machine (30,000?rpm?50,000?rpm)

### Market segment by Ton

5-20 Tons

More than 20 Tons

### Market segment by Application

Steam Turbine

Gas Turbine

Industrial Turbomachinery

Aircraft Engine

Other

Major players covered

Schenck Rotec GmbH

Hofmann

Ascential Technologies

Hangzhou Jizhi Mechatronic Co., Ltd.

Beijing Keeven PRECISION Testing Machinery Co., Ltd.

Shanghai JianPing Balancing Machine Manufacturing Co.,Ltd

Schiak

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 High Speed Dynamic Balancing Machine product scope, market

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overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High Speed Dynamic Balancing Machine, with price, sales quantity, revenue, and global market share of High Speed Dynamic Balancing Machine from 2021 to 2026.

Chapter 3, the High Speed Dynamic Balancing Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High Speed Dynamic Balancing Machine 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 High Speed Dynamic Balancing Machine 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 High Speed Dynamic Balancing Machine.

Chapter 14 and 15, to describe High Speed Dynamic Balancing Machine sales channel, distributors, customers, research findings and conclusion.

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