

Global Wind Tunnel Balance 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 Wind Tunnel Balance market size was valued at US\$ 35.50 million in 2025 and is forecast to a readjusted size of US\$ 52.95 million by 2032 with a CAGR of 5.9% during review period.

In 2025, global sales volume of Wind Tunnel Balance was approximately 230 units, with an average market price of about USD 200,000 per unit. The gross margin of major manufacturers was approximately 30%-50%.

A Wind Tunnel Balance is a high-precision aerodynamic force measurement device used in wind tunnel testing. It is typically installed inside the test model, on the model support structure, or outside the wind tunnel test section, and is used to measure lift, drag, side force, as well as pitching, rolling, and yawing moments generated by the test model under airflow. Its core function is to convert aerodynamic loads into electrical signals that can be acquired, calibrated, and decoupled, providing fundamental test data for aerodynamic shape optimization, stability evaluation, and CFD simulation validation.

The upstream supply chain of Wind Tunnel Balance mainly includes high-strength alloy materials, elastic structural components, strain gauges, piezoelectric elements, signal conditioning modules, data acquisition systems, and calibration equipment. The midstream segment covers the design, manufacturing, assembly, and calibration of different types of Wind Tunnel Balance, including internal, external, three-component, five-component, and six-component configurations. Downstream applications mainly include aerospace, automotive, rail transit, and wind engineering. Wind Tunnel Balance is a specialized testing device characterized by small-batch production, high customization, and high measurement accuracy.

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

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

Global Wind Tunnel Balance 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 Wind Tunnel Balance 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 Wind Tunnel Balance

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 Wind Tunnel Balance 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 HORIBA, Calspan Corporation, Modern Machine & Tool, Aerophysics Research Instruments, AEROLAB, ATE Aerotech, RUAG Group, TecQuipment, Armfield, Changzhou Kunwei Sensing Technology, etc.

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

Market Segmentation

Wind Tunnel Balance 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

Internal Type

External Type

Market segment by Measurement Dimension

Three-component

Five-component

Six-component

Market segment by Force Measurement Principle

Strain-gauge Type

Mechanical Type

Piezoelectric Type

Market segment by Application

Aerospace

Automotive

Wind Engineering

Rail Transit

Other

Major players covered

HORIBA

Calspan Corporation

Modern Machine & Tool

Aerophysics Research Instruments

AEROLAB

ATE Aerotech

RUAG Group

TecQuipment

Armfield

Changzhou Kunwei Sensing Technology

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 Wind Tunnel Balance product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Wind Tunnel Balance 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 Wind Tunnel Balance 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 Wind Tunnel Balance.

Chapter 14 and 15, to describe Wind Tunnel Balance sales channel, distributors, customers, research findings and conclusion.

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