

Global Wind Tunnel Balance Market Growth 2026-2032

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Abstracts

The global Wind Tunnel Balance market size is predicted to grow from US\$ 33.75 million in 2025 to US\$ 51.39 million in 2032; it is expected to grow at a CAGR of 6.2% from 2026 to 2032.

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.

United States market for Wind Tunnel Balance is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Wind Tunnel Balance is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Wind Tunnel Balance is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Wind Tunnel Balance players cover HORIBA, Calspan Corporation, Modern Machine & Tool, Aerophysics Research Instruments, AEROLAB, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Wind Tunnel Balance 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 Wind Tunnel Balance portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Wind Tunnel Balance market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Wind Tunnel Balance 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 Wind Tunnel Balance.

This report presents a comprehensive overview, market shares, and growth opportunities of Wind Tunnel Balance market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Internal Type

External Type

Segmentation by Measurement Dimension:

Three-component

Five-component

Six-component

Segmentation by Force Measurement Principle:

Strain-gauge Type

Mechanical Type

Piezoelectric Type

Segmentation by Application:

Aerospace

Automotive

Wind Engineering

Rail Transit

Other

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.

HORIBA

Calspan Corporation

Modern Machine & Tool

Aerophysics Research Instruments

AEROLAB

ATE Aerotech

RUAG Group

TecQuipment

Armfield

Changzhou Kunwei Sensing Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Wind Tunnel Balance market?

What factors are driving Wind Tunnel Balance market growth, globally and by region?

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

How do Wind Tunnel Balance market opportunities vary by end market size?

How does Wind Tunnel Balance break out by Type, by Application?

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