

Global Thermo Gravimetric Analyzer (TGA) Market Growth 2026-2032

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Abstracts

The global Thermo Gravimetric Analyzer (TGA) market size is predicted to grow from US\$ 158 million in 2025 to US\$ 208 million in 2032; it is expected to grow at a CAGR of 4.2% from 2026 to 2032.

In 2025, global Thermo Gravimetric Analyzer (TGA) sales reached approximately 4,910 Units, with an average global market price of around 32.91 K USD per Unit.

A Thermogravimetrischer Analysator (TGA) is a high-precision analytical instrument designed to monitor the mass changes of a material as a function of temperature or time under a controlled atmosphere. The core principle involves using an ultra-microbalance to detect mass loss or gain resulting from physical or chemical phenomena such as decomposition, oxidation, reduction, adsorption, or desorption. As a fundamental tool for material characterization, TGA is extensively utilized to determine thermal stability, compositional analysis, moisture/volatile content, and degradation kinetics.

The TGA supply chain begins upstream with high-precision sensors (notably microbalances), specialized furnace components, mass flow controllers, and sophisticated analytical software. Midstream consists of instrument manufacturers focusing on system integration, calibration, and assembly. Downstream applications span petro-chemicals, advanced materials R&D, pharmaceuticals, aerospace, and environmental monitoring. The industry operates on a 'Core R&D + Modular Customization' production model. Due to high technical barriers, global leaders maintain gross margins between 50% and 70%, while high-end domestic players typically range from 40% to 55%, with premiums driven by sensor accuracy and software intelligence.

Market Development Opportunities & Main Driving Factors

Against the backdrop of the global energy transition and the race for advanced materials, TGA is entering an unprecedented 'golden age' of growth. According to brokerage reports on the scientific instrument sector, the R&D of new energy battery materials is currently the most potent driver: thermal stability testing for solid-state batteries and purity analysis for conductive agents like carbon nanotubes have directly surged procurement demand for ultra-sensitive TGAs. Furthermore, as major global economies push toward carbon neutrality, research into biomass energy conversion and Carbon Capture, Utilization, and Storage (CCUS) materials has opened a vast 'blue ocean' market. Persistent government policies favoring 'domestic substitution' are also encouraging large research institutes and state-owned enterprises to prioritize high-end TGA systems with independent intellectual property rights.

Market Challenges, Risks, & Restraints

Despite robust demand, the industry faces dual challenges: core supply chain stability and technical bottlenecks. Annual reports indicate that high-end microbalances and corrosion-resistant furnace materials remain highly dependent on a few multinational suppliers, posing non-negligible risks of geopolitical supply chain disruptions. Technologically, as downstream clients demand more In-situ analysis and hyphenated techniques (e.g., TGA-FTIR-GCMS), single-function TGAs struggle to meet high-end research needs, and sustained R&D investment places higher pressure on corporate cash flow. Simultaneously, global economic volatility may lead academic and commercial labs to trim fixed-asset budgets, potentially prolonging sales cycles and increasing inventory turnover risks.

Downstream Demand Trends

Downstream demand is rapidly evolving toward 'Intelligence' and 'Multidimensionality.' In the pharmaceutical industry, under the pressure of rising pharmacopeia standards, there is a stringent requirement for automated sampling and regulatory compliance software to ensure data integrity. In the chemical and polymer sectors, demand has shifted from basic quality control to deep kinetic modeling; high-end, customized TGAs capable of simulating extreme industrial environments (high pressure, corrosive atmospheres) are becoming market favorites. Additionally, automated systems integrated with AI algorithms are becoming a standard trend. CEOs and marketing managers should focus on enhancing customer stickiness through a combination of 'instrument + service + digital solutions' to satisfy the urgent need of end-users to

shorten R&D cycles and reduce labor costs.

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

This Insight Report provides a comprehensive analysis of the global Thermo Gravimetric Analyzer (TGA) 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 Thermo Gravimetric Analyzer (TGA) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Thermo Gravimetric Analyzer (TGA) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thermo Gravimetric Analyzer (TGA) 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 Thermo Gravimetric Analyzer (TGA).

This report presents a comprehensive overview, market shares, and growth opportunities of Thermo Gravimetric Analyzer (TGA) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

General-Pressure TGA Analyzer

High-Pressure TGA Analyzer

Segmentation by Instrument Structure:

Suspension Type

Top-loading Type

Horizontal Type

Segmentation by Measurement Principle:

Isothermal Thermogravimetry

Dynamic Thermogravimetry

Quasi-static Thermogravimetry

Segmentation by Automation Level:

Manual

Autosampler

Segmentation by Application:

Academic & Research

Chemical & Petrochemical

Pharma & Biotech

Food & Beverages

Energy & Batteries

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.

TA Instruments (Waters)

Mettler-Torred

NETZSCH

PerkinElmer

Shimadzu

Hitachi High-Tech

Linseis

SETARAM (KEP Technologies)

LECO Corporation

ELTRA (VERDER)

Rigaku

Sundy

Beijing Henven

Nanjing Dazhan Testing Instrument

Beijing JWGB Sci & Tech

Nanjing Huicheng Instrument

SCINCO

Precisa (Techcomp)

Shanghai HESON

Shanghai Jiahang Instruments

Beijing Jingyi Gaoke Instrument

Beijing Beiguang Hongyuan Instrument

FLSmdth

Navas Instruments

Torontech

Sylab (Orbit Technologies)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Thermo Gravimetric Analyzer (TGA) market?

What factors are driving Thermo Gravimetric Analyzer (TGA) market growth, globally and by region?

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

How do Thermo Gravimetric Analyzer (TGA) market opportunities vary by end

market size?

How does Thermo Gravimetric Analyzer (TGA) break out by Type, by Application?

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Figure 101. Global Thermo Gravimetric Analyzer (TGA) Sales Market Share Forecast by Application (2027-2032)

Figure 102. Global Thermo Gravimetric Analyzer (TGA) Revenue Market Share Forecast by Application (2027-2032)

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