

Global Thermogravimetric Analysis Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thermogravimetric Analysis market size is expected to reach \$ 216 million by 2032, rising at a market growth of 3.9% CAGR during the forecast period (2026-2032).

In 2025, global Thermogravimetric Analysis sales reached approximately 4,910 Units, with an average global market price of around 32.91 K USD per Unit.

A Thermogravimetric Analysis (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.

This report studies the global Thermogravimetric Analysis production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Thermogravimetric Analysis total production and demand, 2021-2032, (Units)

Global Thermogravimetric Analysis total production value, 2021-2032, (USD Million)

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

Global Thermogravimetric Analysis consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Thermogravimetric Analysis domestic production, consumption, key domestic manufacturers and share

Global Thermogravimetric Analysis production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Thermogravimetric Analysis production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Thermogravimetric Analysis production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Thermogravimetric Analysis 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 TA Instruments (Waters), Mettler-Toledo, NETZSCH, PerkinElmer, Shimadzu, Hitachi High-Tech, Linseis, SETARAM (KEP

Technologies), LECO Corporation, ELTRA (VERDER), 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 Thermogravimetric Analysis market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Thermogravimetric Analysis Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermogravimetric Analysis Market, Segmentation by Type:

General-Pressure TGA Analyzer

High-Pressure TGA Analyzer

Global Thermogravimetric Analysis Market, Segmentation by Instrument Structure:

Suspension Type

Top-loading Type

Horizontal Type

Global Thermogravimetric Analysis Market, Segmentation by Measurement Principle:

Isothermal Thermogravimetry

Dynamic Thermogravimetry

Quasi-static Thermogravimetry

Global Thermogravimetric Analysis Market, Segmentation by Automation Level:

Manual

Autosampler

Global Thermogravimetric Analysis Market, Segmentation by Application:

Academic & Research

Chemical & Petrochemical

Pharma & Biotech

Food & Beverages

Energy & Batteries

Others

Companies Profiled:

TA Instruments (Waters)

Mettler-Toledo

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

FLSmidth

Navas Instruments

Torontech

Sylab (Orbit Technologies)

Key Questions Answered:

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

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