

# Global TGA (Thermogravimetric Analysis) Market Growth 2026-2032

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## Abstracts

The global TGA (Thermogravimetric Analysis) 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 Thermogravimetric Analysis (TGA) production reached approximately 4,910 units, with a average price of 32.91 K USD/Unit.

A Thermogravimetric Analysis (TGA) is a type of thermal analysis that examines the thermal stability of a material. This is accomplished by recording the mass of a material with respect to temperature or time. TGA is most often used to characterize how a material decomposes, or simply how much mass a material loses as temperature increases.

Thermogravimetric Analysis (TGA) is a thermal analysis technique and instrument system that continuously measures a sample's mass change as a function of temperature or time under a programmed thermal profile and controlled atmosphere. By interpreting TG/DTG curves, TGA quantifies volatilization, decomposition, oxidation/reduction, adsorption/desorption, and residues (e.g., ash/fillers), supporting assessments of thermal stability, formulation composition, moisture/volatile content, inorganic residue fraction, and reaction kinetics. As a reproducible "thermal fingerprint" tool for R&D and quality control, TGA is widely used across fine chemicals, pharmaceuticals, water/environment, polymers, and metals, often combined with software-driven methods to deliver auditable, consistent workflows.

Production model: TGA is typically built through a platform-based, modular architecture (furnace, gas handling, control, software) with application-specific options (temperature

range, autosampling, hyphenation interfaces). Vendors often manufacture proprietary/critical components in-house to safeguard performance consistency, outsource non-proprietary parts where efficient, and complete final assembly, calibration, and QA under certified quality systems?supported by a global service network covering installation qualification, calibration, compliance support, and training.

Indicative gross margin: As a high-value precision instrument category, TGA products commonly align with ~40%?60% gross margin ranges; leading precision instrument players often operate around ~60% overall gross margin, a practical reference band for premium laboratory product lines.

Value chain: Upstream includes microbalance/sensing and control modules, furnace and high-temperature materials, precision machining, electronics, and software; midstream covers instrument design/manufacturing, integration, calibration/validation; downstream spans new materials and new energy, life science and healthcare, environment and food safety?where ?thermal analysis instruments? are commonly grouped as a key branch of analytical instrumentation in brokerage research.

### Market Development Opportunities & Main Driving Factors

TGA demand is being reshaped by a dual engine of ?materials innovation + regulated quality control.? Battery materials, circular economy initiatives, and advanced materials development increasingly require quantitative thermal stability and residue insights, while policy-driven equipment renewal and education/research instrument upgrades create a structural replacement cycle. In China, the State Council?s large-scale equipment renewal action plan and the education-sector major equipment upgrade program explicitly support major teaching and research instruments across strategic fields such as materials, energy, health, and integrated circuits.

### Market Challenges, Risks, & Restraints

Competition in TGA is fundamentally about long-term reliability and data reproducibility. Tight tolerances and robust quality systems are required for precision weighing and thermal control; risks can be amplified by dependence on key components/single-source suppliers, trade and tariff uncertainty, and insufficient local service capacity. Meanwhile, rising expectations for validation/compliance, data traceability, and method standardization force continuous investment in software, applications, and service infrastructure.

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

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of TGA (Thermogravimetric Analysis) 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-Torredo

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 Addressed in this Report**

What is the 10-year outlook for the global TGA (Thermogravimetric Analysis) market?

What factors are driving TGA (Thermogravimetric Analysis) market growth, globally and by region?

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

How do TGA (Thermogravimetric Analysis) market opportunities vary by end market size?

How does TGA (Thermogravimetric Analysis) break out by Type, by Application?

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