

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

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Abstracts

The global TGA (Thermogravimetric Analysis) market size is expected to reach \$ 179 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

In 2025, global Thermogravimetric Analysis (TGA) production reached approximately 2300 units, with a average price of 55 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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This report studies the global TGA (Thermogravimetric Analysis) production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global TGA (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-Torred, PerkinElmer, Shimadzu, Hitachi High-Tech, NETZSCH, Linseis, ELTRA (VERDER), LECO Corporation, Rigaku, 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 TGA (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 TGA (Thermogravimetric Analysis) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global TGA (Thermogravimetric Analysis) Market, Segmentation by Type:

Standard TGA Analyzer

High-Pressure TGA Analyzer

Global TGA (Thermogravimetric Analysis) Market, Segmentation by Instrument Structure:

Suspension Type

Top-loading Type

Horizontal Type

Global TGA (Thermogravimetric Analysis) Market, Segmentation by Application:

Polymers & Plastics

Pharma & Biotech

Chemical & Petrochemical

Food & Beverages

Energy & Batteries

Academic & Research

Others

Companies Profiled:

TA Instruments (Waters)

Mettler-Toledo

PerkinElmer

Shimadzu

Hitachi High-Tech

NETZSCH

Linseis

ELTRA (VERDER)

LECO Corporation

Rigaku

SETARAM (KEP Technologies)

FLSmidth

Navas Instruments

Instrument Specialists, Inc.

Torontech

Precisa

Beijing Henven

Nanjing Dazhan Testing Instrument

Shanghai HESON

Sundy

Key Questions Answered:

1. How big is the global TGA (Thermogravimetric Analysis) market?
2. What is the demand of the global TGA (Thermogravimetric Analysis) market?

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

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