

Global TGA (Thermogravimetric Analysis) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global TGA (Thermogravimetric Analysis) market size was valued at US\$ 130 million in 2025 and is forecast to a readjusted size of US\$ 179 million by 2032 with a CAGR of 4.7% during review period.

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 is a detailed and comprehensive analysis for global TGA (Thermogravimetric Analysis) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global TGA (Thermogravimetric Analysis) market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global TGA (Thermogravimetric Analysis) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global TGA (Thermogravimetric Analysis) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global TGA (Thermogravimetric Analysis) market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for TGA (Thermogravimetric Analysis)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global TGA (Thermogravimetric Analysis) market based on the following parameters - company overview, sales quantity, revenue, 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, 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.

Market Segmentation

TGA (Thermogravimetric Analysis) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Standard TGA Analyzer

High-Pressure TGA Analyzer

Market segment by Instrument Structure

Suspension Type

Top-loading Type

Horizontal Type

Market segment by Application

Polymers & Plastics

Pharma & Biotech

Chemical & Petrochemical

Food & Beverages

Energy & Batteries

Academic & Research

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe TGA (Thermogravimetric Analysis) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of TGA (Thermogravimetric Analysis), with price, sales quantity, revenue, and global market share of TGA (Thermogravimetric Analysis) from 2021 to 2026.

Chapter 3, the TGA (Thermogravimetric Analysis) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the TGA (Thermogravimetric Analysis) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and TGA (Thermogravimetric Analysis) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of TGA (Thermogravimetric Analysis).

Chapter 14 and 15, to describe TGA (Thermogravimetric Analysis) sales channel, distributors, customers, research findings and conclusion.

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