

# Global Buoyancy Method Density Meter Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Buoyancy Method Density Meter market size is expected to reach \$ 22.83 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

In 2025, global Buoyancy Method Density Meter sales reached approximately 23,947 Units with an average global market price of around 684 USD per Unit.

A Buoyancy Method Density Meter is a precision testing instrument that determines density and specific gravity based on Archimedes' buoyancy principle. It calculates sample volume, density, relative density or specific gravity by comparing the sample's weight in air with its apparent weight when immersed in a liquid of known density. The system generally consists of a precision electronic balance, immersion vessel, sample basket, suspension fixture, temperature compensation unit, density-calculation software and calibration accessories. It is mainly used for plastics, rubber, metals, ceramics, compacted powders, composites, gemstones, electronic materials and research samples. ISO 1183-1 includes the immersion method for density determination of non-cellular plastics, while ASTM D792 covers density and relative density testing of solid plastics, supporting its broad use in material R&D, factory quality control, third-party testing, metrology laboratories and education.

Buoyancy method density meters are small-to-mid-sized precision laboratory and quality-control instruments, with an estimated industry gross margin generally ranging from 35% to 60%. Entry-level solid density meters, domestic standard models and channel-driven products are usually positioned around 35%–45%, while mid-to-high-end systems equipped with precision balances, automatic temperature compensation, data management software, preset testing standards and calibration services can reach

approximately 45%–60%. The upstream supply chain includes weighing sensors, electronic balance platforms, metal structures, immersion vessels, temperature sensors, control circuits, embedded software, calibration weights and reference liquids. The midstream covers instrument design, assembly, calibration, software integration, branded sales and after-sales service. Downstream users include plastics and rubber, metals, electronic materials, powder metallurgy, ceramics, jewelry, education and research, third-party testing laboratories and metrology institutions.

### Market Development Opportunities & Main Driving Factors

The growth opportunity for Buoyancy Method Density Meters is mainly driven by material-industry upgrading, laboratory digitalization and stronger corporate quality systems. Plastics, rubber, composites, metal powders, ceramics and electronic-material manufacturers use density and specific-gravity data to evaluate formulation stability, crystallinity, porosity, filler content, batch consistency and material cost efficiency. ASTM D792 notes that density variations may be associated with crystallinity, plasticizer loss, solvent absorption, porosity and formulation differences, making density testing not only a basic quality-control method but also an important data input for material R&D and process control. In parallel, laboratory instruments are evolving from standalone measurement devices toward automatic calculation, software management, data traceability and calibration services. Annual reports from Mettler Toledo and Sartorius show that laboratory balances, laboratory software and premium laboratory products remain important business areas for precision-instrument companies.

### Market Challenges, Risks, & Restraints

The main challenge in this market is that the testing principle is mature and the entry barrier for basic products is relatively limited, leading to price competition in entry-level solid density meters. In many routine quality-control applications, an electronic balance, immersion cup and simple density kit are sufficient, resulting in clear product homogenization among standard models. At the same time, buoyancy-based measurements are sensitive to liquid density, temperature, bubbles, water absorption, sample surface roughness, suspension method and operator discipline. Without temperature compensation, calibration procedures and sample-preparation guidelines, repeatability and accuracy may decline. In addition, gas pycnometers, oscillating-tube density meters, online density sensors and X-ray CT create substitution pressure in powder, small-volume sample, liquid, high-automation or high-precision applications. For manufacturers, companies without proprietary weighing platforms, software algorithms, calibration capability and industry-application expertise may be positioned

as low-value laboratory accessory suppliers.

## Downstream Demand Trends

Downstream demand is shifting from 'measuring a density value' toward 'building a material-quality data chain.' Plastics and rubber remain the largest application areas, where density testing is used for resins, modified plastics, films, sheets, pipes, rubber parts and recycled materials in formulation validation, incoming inspection and cost control. Metals, ceramics and powder metallurgy users focus more on sintered density, porosity and densification levels. Electronic materials, jewelry and precision components place greater emphasis on low-damage testing for small, irregular or high-value samples. Future purchasing preferences will focus on precision balance platforms, automatic temperature compensation, multi-liquid modes, preset standard methods, data export, LIMS or quality-system connectivity, audit trails and calibration services. Mid-to-high-end brands can strengthen customer stickiness through “instrument + software + calibration + application method packages,” while regional suppliers can continue to penetrate education, basic quality-control and small-to-mid-sized manufacturing customers through competitive pricing, fast delivery and localized service.

This report studies the global Buoyancy Method Density Meter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Buoyancy Method Density Meter 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 Buoyancy Method Density Meter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Buoyancy Method Density Meter total production and demand, 2021-2032, (Units)

Global Buoyancy Method Density Meter total production value, 2021-2032, (USD Million)

Global Buoyancy Method Density Meter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Buoyancy Method Density Meter consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Buoyancy Method Density Meter domestic production, consumption,

key domestic manufacturers and share

Global Buoyancy Method Density Meter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Buoyancy Method Density Meter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Buoyancy Method Density Meter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Buoyancy Method Density Meter 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 Shenzhen Dahometer, MatsuHaku, Toyo Seiki Seisaku-sho, Xiamen Xiongfa, Xiamen Jinheyuan Technology, Alfa Mirage, MonTech, Gibertini, Gibitre Instruments, Beijing Etnaln, 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 Buoyancy Method Density Meter market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Buoyancy Method Density Meter Market, Segmentation by Type:

Solid Density Meter

Liquid Density Meter

Solid & Liquid Density Meter

#### Global Buoyancy Method Density Meter Market, Segmentation by Working Principle:

Hydrometer

Hydrostatic Weighing Density Meter

Float-type Density Meter

#### Global Buoyancy Method Density Meter Market, Segmentation by Automation Level:

Semi-Automated Density Meter

Fully-Automated Density Meter

#### Global Buoyancy Method Density Meter Market, Segmentation by Application:

Metals

Plastics

Rubber

Others

Companies Profiled:

Shenzhen Dahometer

MatsuHaku

Toyo Seiki Seisaku-sho

Xiamen Xiongfa

Xiamen Jinheyuan Technology

Alfa Mirage

MonTech

Gibertini

Gibitre Instruments

Beijing Etnaln

Beijing Air Timos Instrument

Torontech

Xingyun Electronic

Milton Instruments

Shenzhen MAYZUM

Xiamen YiShiTe Instrument

Key Questions Answered:

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

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