

Global Gem Tester Market Growth 2026-2032

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Abstracts

The global Gem Tester market size is predicted to grow from US\$ 110 million in 2025 to US\$ 143 million in 2032; it is expected to grow at a CAGR of 3.8% from 2026 to 2032.

A gem tester is a specialized instrument used for identifying and analyzing gemstones. It helps jewelers, collectors, and gemologists identify different types of gemstones, assess their quality, and determine whether they are natural or synthetic. Its working principles typically include techniques such as refractive index measurement, specific gravity measurement, spectral analysis, thermal conductivity testing, and fluorescence testing. Gem testers are widely used in the jewelry industry, gem identification, and educational research, providing crucial support for ensuring the authenticity and value of gemstones.

In 2025, global Gem Tester production reached 822,670 units, with an average price of approximately RMB 136 per unit. The industry's average gross profit margin was approximately 28%.

The gem tester industry chain mainly consists of the following upstream components: near-infrared/ultraviolet light sources (such as ams OSRAM and Luminus), photoelectric detection and sensors (such as Hamamatsu and Vishay), miniature spectrometers and OEM modules (such as Hamamatsu miniature spectrometers, Ocean Insight, and Wasatch Photonics), and filters and optical components (such as Semrock, Edmund Optics, and Thorlabs); midstream components include complete machine/module and solution manufacturers, focusing on in-store rapid testing and lab-grown diamond screening; and downstream components are mainly distributed through jewelry tool distributors and channel partners (such as Stuller, Gesswein, and local distribution networks in various countries) to reach jewelry retail stores, processing workshops, diamond trading and recycling institutions, etc., and are complemented by after-sales repair and calibration, software/database updates, and third-party verification services

to form continuous revenue and customer loyalty.

The gem tester market has seen continuous growth in recent years, driven by the development of the global jewelry industry and increasing consumer demand for gemstone authentication. With technological advancements, modern gem testers have not only improved in accuracy and efficiency but also incorporated more advanced technologies, such as artificial intelligence and machine learning, to enhance the intelligence of the identification process. These instruments can quickly analyze the physical properties and spectral characteristics of gemstones, helping professionals better distinguish between natural and synthetic gemstones, thereby meeting the market's demand for high-quality jewelry.

Currently, various types of gem testers are available on the market, ranging from simple portable devices to complex laboratory analytical instruments, suitable for different user groups, including jewelers, gemologists, and educational institutions. Furthermore, the rise of e-commerce platforms has increased consumer interest in purchasing gemstones online, driving up demand for portable gemstone testers to facilitate simple gemstone identification for individual users.

The future development trend of gemstone testers will mainly focus on three aspects: First, intelligentization will be a major direction, with instruments integrating more intelligent algorithms and data analysis functions emerging, making gemstone identification more efficient and accurate. Second, portability and user-friendliness will be further enhanced, with more simple and easy-to-use devices entering the market, allowing non-professional users to easily conduct gemstone testing. Finally, with the popularization of sustainable development concepts, the market demand for environmentally friendly materials and low-energy-consumption equipment will increase, propelling gemstone testers towards sustainable development.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Gem Tester 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 Gem Tester.

This report presents a comprehensive overview, market shares, and growth opportunities of Gem Tester market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Portable

Desktop

Segmentation by Detection Principle:

Refractometer

Polarizer

Others

Segmentation by Application:

Individual

Commercial

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.

Presidium Instruments

Gemlogis

SmartPro

Dikai Tools

TRI Electronics

Gain Express

GIA Instruments

GemOro

De Beers Group

BiaoQi Optoelectronics

Magellan

FABLE

Lindian Technology

Nanjing Baoguang Testing

Wenzhou Kefeng Instrument

Key Questions Addressed in this Report

What is the 10-year outlook for the global Gem Tester market?

What factors are driving Gem Tester market growth, globally and by region?

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

How do Gem Tester market opportunities vary by end market size?

How does Gem Tester break out by Type, by Application?

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