

Global Optical Shaft Measurement Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Optical Shaft Measurement Machine market size is expected to reach \$ 3680 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

An optical shaft measurement machine is a specialized measuring device used for high-precision geometric dimensional and form-position error detection of mechanical shaft parts (such as drive shafts, motor shafts, and rolling shafts). It uses an optical imaging system (such as a CCD camera or laser scanner) combined with a precision motion platform to perform non-contact or semi-contact measurements of key parameters such as diameter, length, coaxiality, roundness, straightness, and runout of the shaft. It features high measurement efficiency, stable accuracy, and a high degree of automation, and is widely used in industries such as automotive manufacturing, precision machinery, electronics, motors, and bearings.

The optical shaft measurement machine industry chain can be divided into three segments: upstream core components, midstream complete machine manufacturing and system integration, and downstream application industries. The upstream mainly includes optical components (lenses, CCD/CMOS sensors), precision mechanical parts (guide rails, lead screws), motion control systems, industrial software, and electronic components, among which high-end optical and control systems have high technological barriers. The midstream consists of OEM manufacturers, responsible for equipment design, integration, and debugging, and is the core value link. The downstream is mainly used in industries such as automotive parts, precision manufacturing, motors, bearings, and 3C electronics. In terms of gross profit margin, upstream standardized component manufacturers typically have a margin of 20%~35%; midstream OEMs, due to their higher technological content and customization levels,

usually have a margin of 35%?55%, with high-end equipment exceeding 60%; downstream users are manufacturing companies, where equipment investment is considered capital expenditure and does not directly reflect gross profit margin, but it has significant value in improving production efficiency and quality.

In 2025, the average price of optical shaft measurement machine was US\$20 k per unit, with sales of 111.7 k units, and the total production capacity of optical axis measuring machines was 157.3 k units.

As a crucial sub-segment of precision metrology, optical shaft measurement machines are currently undergoing an upgrade from 'traditional contact-based inspection' to 'high-precision optics + automated inspection.' Their core competitiveness is gradually shifting from single-dimensional measurement accuracy to a comprehensive competition encompassing 'efficiency, stability, and intelligence.' With the increasing demands for consistency and batch inspection efficiency of shaft parts from automotive electrification, precision manufacturing, and high-end equipment industries, the penetration rate of optical axis measuring machines continues to rise. Simultaneously, the industry is showing a trend towards online inspection, data-driven management, and integration with the Industrial Internet. However, the high-end market remains dominated by European, American, and Japanese manufacturers, and domestic equipment still needs breakthroughs in core optical systems and software algorithms. Overall, this industry is characterized by high technological barriers, high unit value, and steady demand growth, and will evolve towards higher precision, faster cycle times, and greater intelligence in the future.

This report studies the global Optical Shaft Measurement Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Optical Shaft Measurement Machine 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 Optical Shaft Measurement Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Optical Shaft Measurement Machine total production and demand, 2021-2032, (K Units)

Global Optical Shaft Measurement Machine total production value, 2021-2032, (USD Million)

Global Optical Shaft Measurement Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Optical Shaft Measurement Machine consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Optical Shaft Measurement Machine domestic production, consumption, key domestic manufacturers and share

Global Optical Shaft Measurement Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Optical Shaft Measurement Machine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Optical Shaft Measurement Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Optical Shaft Measurement Machine 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 Jenoptik, VICIVISION, Tokyo Seimitsu, Quality Vision International, Riftek, Mahr, ACCRETECH, Cyber Technologies, Taylor Hobson, Marposs, 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 Optical Shaft Measurement Machine market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Optical Shaft Measurement Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Optical Shaft Measurement Machine Market, Segmentation by Type:

Fully Automatic

Semi Automatic

Global Optical Shaft Measurement Machine Market, Segmentation by Measurement Function:

Basic Dimension Measurement Type

Geometric Tolerance Measurement Type

Multi-Parameter Integrated Measurement System

Global Optical Shaft Measurement Machine Market, Segmentation by Structural Form:

Horizontal Optical Axis Measuring Machine

Vertical Optical Axis Measuring Machine

Multi-Station Measuring System

Global Optical Shaft Measurement Machine Market, Segmentation by Application:

Electronic and Semiconductor

Mechanical Products

Automotive Industry

Others

Companies Profiled:

Jenoptik

VICIVISION

Tokyo Seimitsu

Quality Vision International

Riftek

Mahr

ACCRETECH

Cyber Technologies

Taylor Hobson

Marposs

Keyence

Zeiss

Alicona

Mitutoyo

Hexagon

Yuanjie Measurement and Control Equipment

Guangzhou Tezhun Instrumentation

Key Questions Answered:

1. How big is the global Optical Shaft Measurement Machine market?
2. What is the demand of the global Optical Shaft Measurement Machine market?
3. What is the year over year growth of the global Optical Shaft Measurement Machine market?
4. What is the production and production value of the global Optical Shaft Measurement Machine market?
5. Who are the key producers in the global Optical Shaft Measurement Machine market?
6. What are the growth factors driving the market demand?

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