

# **Global High Precision 3D Profile-Measuring Instrument Supply, Demand and Key Producers, 2023-2029**

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## **Abstracts**

The global High Precision 3D Profile-Measuring Instrument market size is expected to reach \$ 404.7 million by 2029, rising at a market growth of 14.5% CAGR during the forecast period (2023-2029).

3D Laser Profile Measuring Instruments, also known as external profile sensors. The laser triangulation principle is used to collect two-dimensional contour information on different material surfaces. The laser beam is amplified by a special lens set to form a static laser line that is projected onto the surface of the measured object. The laser line is diffusely reflected on the surface and the reflected light is projected onto the sensitive sensor matrix through a high-quality optical system. In addition to the distance information from the sensor to the measured surface (Z-axis), the controller can also calculate the position information along the laser line (X-axis) from the image information. The profilometer measurement outputs a set of two-dimensional co-ordinate values in a two-dimensional co-ordinate system with the sensor as the centre of origin.

This report studies the global High Precision 3D Profile-Measuring Instrument production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Precision 3D Profile-Measuring Instrument, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of High Precision 3D Profile-Measuring Instrument that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global High Precision 3D Profile-Measuring Instrument total production and demand, 2018-2029, (K Units)

Global High Precision 3D Profile-Measuring Instrument total production value, 2018-2029, (USD Million)

Global High Precision 3D Profile-Measuring Instrument production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global High Precision 3D Profile-Measuring Instrument consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: High Precision 3D Profile-Measuring Instrument domestic production, consumption, key domestic manufacturers and share

Global High Precision 3D Profile-Measuring Instrument production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global High Precision 3D Profile-Measuring Instrument production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global High Precision 3D Profile-Measuring Instrument production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units)

This reports profiles key players in the global High Precision 3D Profile-Measuring Instrument 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 KEYENCE, Cognex, CziSlaser, HIKROBOT, LMI Technologies, Micro-Epsilon, Teledyna DALSA, Vision Components and Qingbo Optoelectronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High Precision 3D Profile-Measuring Instrument 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 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

### Global High Precision 3D Profile-Measuring Instrument Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global High Precision 3D Profile-Measuring Instrument Market, Segmentation by Type

640 Point

1280 Point

2048 Point

3840 Point

## Global High Precision 3D Profile-Measuring Instrument Market, Segmentation by Application

Automotive Industry

Consumer Electronic

Semiconductor Industry

Others

### Companies Profiled:

KEYENCE

Cognex

Czislaser

HIKROBOT

LMI Technologies

Micro-Epsilon

Teledyna DALSA

Vision Components

Qingbo Optoelectronics

SmartRay

### Key Questions Answered

1. How big is the global High Precision 3D Profile-Measuring Instrument market?

2. What is the demand of the global High Precision 3D Profile-Measuring Instrument market?
3. What is the year over year growth of the global High Precision 3D Profile-Measuring Instrument market?
4. What is the production and production value of the global High Precision 3D Profile-Measuring Instrument market?
5. Who are the key producers in the global High Precision 3D Profile-Measuring Instrument market?
6. What are the growth factors driving the market demand?

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