

# Global Non-Contact Optical Profilometer Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Non-Contact Optical Profilometer market size is expected to reach \$ 590 million by 2032, rising at a market growth of 3.6% CAGR during the forecast period (2026-2032).

Non-contact optical profilometers are high-precision metrology devices that can measure surface morphology, roughness, and step height without contact with the sample. Based on optical principles such as interference, confocalization, or focal point variation, they achieve high-resolution, non-destructive testing and are widely used in advanced manufacturing and scientific research. The non-contact optical profilometer industry chain includes upstream precision optical components, lasers or light sources, image sensors, motion platforms, controllers, and data processing software; midstream manufacturers are responsible for the system integration of optical systems, mechanical structures, electronic modules, and measurement algorithms; downstream applications cover semiconductor manufacturing, precision machining, optical device production, materials science research, biomedical device testing, and industrial quality control laboratories. Related supporting services include equipment calibration, application training, software upgrades, and maintenance services. In 2025, the global production volume of non-contact optical profilometers was approximately 6,229 units, with a global average market price of approximately US\$72,000 per unit. The gross profit margin of major companies in the industry ranged from 45% to 65%. In 2025, the global production capacity of non-contact optical profilometers was approximately 8,305 units. Market Drivers: Booming Quality Control Needs: As product complexity and quality standards rise across industries, the need for accurate and efficient surface inspection methods intensifies. Non-contact optical profilometers offer high-resolution 3D measurements without surface contact, making them ideal for various quality control applications. Material R&D and Innovation: Developing new materials with specific functionalities requires in-depth understanding of their surface properties. Non-contact

optical profilometers provide crucial data on features like roughness, texture, and topography, aiding in material innovation and optimization. Miniaturization and Micro-/Nano-scale Technologies: The trend towards miniaturization in electronics, medical devices, and other sectors compels the use of tools capable of analyzing microscopic surface features. Non-contact optical profilometers excel in this realm, providing detailed insights into sub-micrometer structures. Focus on Non-Destructive Testing: Increasing awareness of protecting delicate samples and historical artifacts fuels the demand for non-destructive testing methods. Non-contact optical profilometers offer a safe and reliable way to characterize surfaces without risking damage, especially valuable for irreplaceable items. Technological Advancements: Manufacturers are constantly innovating, developing faster, more accurate, and user-friendly profilometers. Features like automated scanning, multi-sensor integration, and data analysis software enhance efficiency and accessibility for users. Market Challenges: Technical Expertise Required: Operating and interpreting data from these instruments require some training and understanding of measurement principles. Lack of expertise can lead to inaccurate results or improper utilization. Environmental Influences: Dust, vibrations, and temperature fluctuations can affect measurement accuracy. Controlling environmental factors and choosing the right instrument for specific applications are crucial. Overall, the non-contact optical profilometer market is illuminating with possibilities, driven by diverse applications, technological advancements, and increasing focus on quality and innovation. Addressing challenges like cost, user knowledge, and environmental factors will be essential for wider adoption and ensuring these versatile instruments continue to shed light on the intricate details of surfaces across various industries.

This report studies the global Non-Contact Optical Profilometer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Non-Contact Optical Profilometer 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 Non-Contact Optical Profilometer that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Non-Contact Optical Profilometer total production and demand, 2021-2032, (Units)

Global Non-Contact Optical Profilometer total production value, 2021-2032, (USD Million)

Global Non-Contact Optical Profilometer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Non-Contact Optical Profilometer consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Non-Contact Optical Profilometer domestic production, consumption, key domestic manufacturers and share

Global Non-Contact Optical Profilometer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Non-Contact Optical Profilometer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Non-Contact Optical Profilometer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Non-Contact Optical Profilometer 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 Zygo, KLA, Sensofar, Taylor Hobson, Bruker, Atomics, Alicona, 4D Technology, Cyber Technologies, Nanovea, 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 Non-Contact Optical Profilometer 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 Non-Contact Optical Profilometer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Non-Contact Optical Profilometer Market, Segmentation by Type:

Desktop Optical Profilometer

Portable Optical Profilometer

Global Non-Contact Optical Profilometer Market, Segmentation by Measurement Principle:

White Light Interferometry Profilometer

Confocal Optical Profilometer

Laser Scanning Profilometer

Phase-Shifting Interferometry Profilometer

Global Non-Contact Optical Profilometer Market, Segmentation by Measurement Capability:

2D Surface Profilometer

3D Surface Profilometer

Global Non-Contact Optical Profilometer Market, Segmentation by Application:

Electronic and Semiconductor

MEMS Industry

Automotive and Aerospace

Life Science

Others

**Companies Profiled:**

Zygo

KLA

Sensofar

Taylor Hobson

Bruker

Atomics

Alicona

4D Technology

Cyber Technologies

Nanovea

Mahr

FRT

AEP Technology

Polytec

Chotest Technology

SmartVision

Foerster Instruments

NanoFocus

OSTEC Instruments

**Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Non-Contact Optical Profilometer Introduction
- 1.2 World Non-Contact Optical Profilometer Supply & Forecast
  - 1.2.1 World Non-Contact Optical Profilometer Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Non-Contact Optical Profilometer Production (2021-2032)
  - 1.2.3 World Non-Contact Optical Profilometer Pricing Trends (2021-2032)
- 1.3 World Non-Contact Optical Profilometer Production by Region (Based on Production Site)
  - 1.3.1 World Non-Contact Optical Profilometer Production Value by Region (2021-2032)
  - 1.3.2 World Non-Contact Optical Profilometer Production by Region (2021-2032)
  - 1.3.3 World Non-Contact Optical Profilometer Average Price by Region (2021-2032)
  - 1.3.4 North America Non-Contact Optical Profilometer Production (2021-2032)
  - 1.3.5 Europe Non-Contact Optical Profilometer Production (2021-2032)
  - 1.3.6 China Non-Contact Optical Profilometer Production (2021-2032)
  - 1.3.7 Japan Non-Contact Optical Profilometer Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Non-Contact Optical Profilometer Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Non-Contact Optical Profilometer Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Non-Contact Optical Profilometer Demand (2021-2032)
- 2.2 World Non-Contact Optical Profilometer Consumption by Region
  - 2.2.1 World Non-Contact Optical Profilometer Consumption by Region (2021-2026)
  - 2.2.2 World Non-Contact Optical Profilometer Consumption Forecast by Region (2027-2032)
- 2.3 United States Non-Contact Optical Profilometer Consumption (2021-2032)
- 2.4 China Non-Contact Optical Profilometer Consumption (2021-2032)
- 2.5 Europe Non-Contact Optical Profilometer Consumption (2021-2032)
- 2.6 Japan Non-Contact Optical Profilometer Consumption (2021-2032)
- 2.7 South Korea Non-Contact Optical Profilometer Consumption (2021-2032)
- 2.8 ASEAN Non-Contact Optical Profilometer Consumption (2021-2032)
- 2.9 India Non-Contact Optical Profilometer Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Non-Contact Optical Profilometer Production Value by Manufacturer (2021-2026)

3.2 World Non-Contact Optical Profilometer Production by Manufacturer (2021-2026)

3.3 World Non-Contact Optical Profilometer Average Price by Manufacturer (2021-2026)

3.4 Non-Contact Optical Profilometer Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Non-Contact Optical Profilometer Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Non-Contact Optical Profilometer in 2025

3.5.3 Global Concentration Ratios (CR8) for Non-Contact Optical Profilometer in 2025

3.6 Non-Contact Optical Profilometer Market: Overall Company Footprint Analysis

3.6.1 Non-Contact Optical Profilometer Market: Region Footprint

3.6.2 Non-Contact Optical Profilometer Market: Company Product Type Footprint

3.6.3 Non-Contact Optical Profilometer Market: Company Product Application

Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

4.1 United States VS China: Non-Contact Optical Profilometer Production Value Comparison

4.1.1 United States VS China: Non-Contact Optical Profilometer Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Non-Contact Optical Profilometer Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Non-Contact Optical Profilometer Production Comparison

4.2.1 United States VS China: Non-Contact Optical Profilometer Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Non-Contact Optical Profilometer Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Non-Contact Optical Profilometer Consumption Comparison

4.3.1 United States VS China: Non-Contact Optical Profilometer Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Non-Contact Optical Profilometer Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Non-Contact Optical Profilometer Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Non-Contact Optical Profilometer Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Non-Contact Optical Profilometer Production Value (2021-2026)

4.4.3 United States Based Manufacturers Non-Contact Optical Profilometer Production (2021-2026)

4.5 China Based Non-Contact Optical Profilometer Manufacturers and Market Share

4.5.1 China Based Non-Contact Optical Profilometer Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Non-Contact Optical Profilometer Production Value (2021-2026)

4.5.3 China Based Manufacturers Non-Contact Optical Profilometer Production (2021-2026)

4.6 Rest of World Based Non-Contact Optical Profilometer Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Non-Contact Optical Profilometer Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Non-Contact Optical Profilometer Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Non-Contact Optical Profilometer Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Non-Contact Optical Profilometer Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Desktop Optical Profilometer

5.2.2 Portable Optical Profilometer

5.3 Market Segment by Type

5.3.1 World Non-Contact Optical Profilometer Production by Type (2021-2032)

5.3.2 World Non-Contact Optical Profilometer Production Value by Type (2021-2032)

5.3.3 World Non-Contact Optical Profilometer Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY MEASUREMENT PRINCIPLE**

6.1 World Non-Contact Optical Profilometer Market Size Overview by Measurement Principle: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Measurement Principle

6.2.1 White Light Interferometry Profilometer

6.2.2 Confocal Optical Profilometer

6.2.3 Laser Scanning Profilometer

6.2.4 Phase-Shifting Interferometry Profilometer

6.3 Market Segment by Measurement Principle

6.3.1 World Non-Contact Optical Profilometer Production by Measurement Principle (2021-2032)

6.3.2 World Non-Contact Optical Profilometer Production Value by Measurement Principle (2021-2032)

6.3.3 World Non-Contact Optical Profilometer Average Price by Measurement Principle (2021-2032)

## **7 MARKET ANALYSIS BY MEASUREMENT CAPABILITY**

7.1 World Non-Contact Optical Profilometer Market Size Overview by Measurement Capability: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Measurement Capability

7.2.1 2D Surface Profilometer

7.2.2 3D Surface Profilometer

7.3 Market Segment by Measurement Capability

7.3.1 World Non-Contact Optical Profilometer Production by Measurement Capability (2021-2032)

7.3.2 World Non-Contact Optical Profilometer Production Value by Measurement Capability (2021-2032)

7.3.3 World Non-Contact Optical Profilometer Average Price by Measurement Capability (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Non-Contact Optical Profilometer Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Electronic and Semiconductor

- 8.2.2 MEMS Industry
- 8.2.3 Automotive and Aerospace
- 8.2.4 Life Science
- 8.2.5 Others
- 8.3 Market Segment by Application
  - 8.3.1 World Non-Contact Optical Profilometer Production by Application (2021-2032)
  - 8.3.2 World Non-Contact Optical Profilometer Production Value by Application (2021-2032)
  - 8.3.3 World Non-Contact Optical Profilometer Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

- 9.1 Zygo
  - 9.1.1 Zygo Details
  - 9.1.2 Zygo Major Business
  - 9.1.3 Zygo Non-Contact Optical Profilometer Product and Services
  - 9.1.4 Zygo Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.1.5 Zygo Recent Developments/Updates
  - 9.1.6 Zygo Competitive Strengths & Weaknesses
- 9.2 KLA
  - 9.2.1 KLA Details
  - 9.2.2 KLA Major Business
  - 9.2.3 KLA Non-Contact Optical Profilometer Product and Services
  - 9.2.4 KLA Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.2.5 KLA Recent Developments/Updates
  - 9.2.6 KLA Competitive Strengths & Weaknesses
- 9.3 Sensofar
  - 9.3.1 Sensofar Details
  - 9.3.2 Sensofar Major Business
  - 9.3.3 Sensofar Non-Contact Optical Profilometer Product and Services
  - 9.3.4 Sensofar Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 Sensofar Recent Developments/Updates
  - 9.3.6 Sensofar Competitive Strengths & Weaknesses
- 9.4 Taylor Hobson
  - 9.4.1 Taylor Hobson Details

- 9.4.2 Taylor Hobson Major Business
- 9.4.3 Taylor Hobson Non-Contact Optical Profilometer Product and Services
- 9.4.4 Taylor Hobson Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Taylor Hobson Recent Developments/Updates
- 9.4.6 Taylor Hobson Competitive Strengths & Weaknesses
- 9.5 Bruker
  - 9.5.1 Bruker Details
  - 9.5.2 Bruker Major Business
  - 9.5.3 Bruker Non-Contact Optical Profilometer Product and Services
  - 9.5.4 Bruker Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Bruker Recent Developments/Updates
  - 9.5.6 Bruker Competitive Strengths & Weaknesses
- 9.6 Atomics
  - 9.6.1 Atomics Details
  - 9.6.2 Atomics Major Business
  - 9.6.3 Atomics Non-Contact Optical Profilometer Product and Services
  - 9.6.4 Atomics Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Atomics Recent Developments/Updates
  - 9.6.6 Atomics Competitive Strengths & Weaknesses
- 9.7 Alicona
  - 9.7.1 Alicona Details
  - 9.7.2 Alicona Major Business
  - 9.7.3 Alicona Non-Contact Optical Profilometer Product and Services
  - 9.7.4 Alicona Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Alicona Recent Developments/Updates
  - 9.7.6 Alicona Competitive Strengths & Weaknesses
- 9.8 4D Technology
  - 9.8.1 4D Technology Details
  - 9.8.2 4D Technology Major Business
  - 9.8.3 4D Technology Non-Contact Optical Profilometer Product and Services
  - 9.8.4 4D Technology Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 4D Technology Recent Developments/Updates
  - 9.8.6 4D Technology Competitive Strengths & Weaknesses
- 9.9 Cyber Technologies

- 9.9.1 Cyber Technologies Details
- 9.9.2 Cyber Technologies Major Business
- 9.9.3 Cyber Technologies Non-Contact Optical Profilometer Product and Services
- 9.9.4 Cyber Technologies Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 Cyber Technologies Recent Developments/Updates
- 9.9.6 Cyber Technologies Competitive Strengths & Weaknesses
- 9.10 Nanovea
  - 9.10.1 Nanovea Details
  - 9.10.2 Nanovea Major Business
  - 9.10.3 Nanovea Non-Contact Optical Profilometer Product and Services
  - 9.10.4 Nanovea Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Nanovea Recent Developments/Updates
  - 9.10.6 Nanovea Competitive Strengths & Weaknesses
- 9.11 Mahr
  - 9.11.1 Mahr Details
  - 9.11.2 Mahr Major Business
  - 9.11.3 Mahr Non-Contact Optical Profilometer Product and Services
  - 9.11.4 Mahr Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Mahr Recent Developments/Updates
  - 9.11.6 Mahr Competitive Strengths & Weaknesses
- 9.12 FRT
  - 9.12.1 FRT Details
  - 9.12.2 FRT Major Business
  - 9.12.3 FRT Non-Contact Optical Profilometer Product and Services
  - 9.12.4 FRT Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 FRT Recent Developments/Updates
  - 9.12.6 FRT Competitive Strengths & Weaknesses
- 9.13 AEP Technology
  - 9.13.1 AEP Technology Details
  - 9.13.2 AEP Technology Major Business
  - 9.13.3 AEP Technology Non-Contact Optical Profilometer Product and Services
  - 9.13.4 AEP Technology Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 AEP Technology Recent Developments/Updates
  - 9.13.6 AEP Technology Competitive Strengths & Weaknesses

## 9.14 Polytec

### 9.14.1 Polytec Details

### 9.14.2 Polytec Major Business

### 9.14.3 Polytec Non-Contact Optical Profilometer Product and Services

### 9.14.4 Polytec Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.14.5 Polytec Recent Developments/Updates

### 9.14.6 Polytec Competitive Strengths & Weaknesses

## 9.15 Chotest Technology

### 9.15.1 Chotest Technology Details

### 9.15.2 Chotest Technology Major Business

### 9.15.3 Chotest Technology Non-Contact Optical Profilometer Product and Services

### 9.15.4 Chotest Technology Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.15.5 Chotest Technology Recent Developments/Updates

### 9.15.6 Chotest Technology Competitive Strengths & Weaknesses

## 9.16 SmartVision

### 9.16.1 SmartVision Details

### 9.16.2 SmartVision Major Business

### 9.16.3 SmartVision Non-Contact Optical Profilometer Product and Services

### 9.16.4 SmartVision Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.16.5 SmartVision Recent Developments/Updates

### 9.16.6 SmartVision Competitive Strengths & Weaknesses

## 9.17 Foerster Instruments

### 9.17.1 Foerster Instruments Details

### 9.17.2 Foerster Instruments Major Business

### 9.17.3 Foerster Instruments Non-Contact Optical Profilometer Product and Services

### 9.17.4 Foerster Instruments Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.17.5 Foerster Instruments Recent Developments/Updates

### 9.17.6 Foerster Instruments Competitive Strengths & Weaknesses

## 9.18 NanoFocus

### 9.18.1 NanoFocus Details

### 9.18.2 NanoFocus Major Business

### 9.18.3 NanoFocus Non-Contact Optical Profilometer Product and Services

### 9.18.4 NanoFocus Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.18.5 NanoFocus Recent Developments/Updates

- 9.18.6 NanoFocus Competitive Strengths & Weaknesses
- 9.19 OSTECH Instruments
  - 9.19.1 OSTECH Instruments Details
  - 9.19.2 OSTECH Instruments Major Business
  - 9.19.3 OSTECH Instruments Non-Contact Optical Profilometer Product and Services
  - 9.19.4 OSTECH Instruments Non-Contact Optical Profilometer Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.19.5 OSTECH Instruments Recent Developments/Updates
  - 9.19.6 OSTECH Instruments Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Non-Contact Optical Profilometer Industry Chain
- 10.2 Non-Contact Optical Profilometer Upstream Analysis
  - 10.2.1 Non-Contact Optical Profilometer Core Raw Materials
  - 10.2.2 Main Manufacturers of Non-Contact Optical Profilometer Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Non-Contact Optical Profilometer Production Mode
- 10.6 Non-Contact Optical Profilometer Procurement Model
- 10.7 Non-Contact Optical Profilometer Industry Sales Model and Sales Channels
  - 10.7.1 Non-Contact Optical Profilometer Sales Model
  - 10.7.2 Non-Contact Optical Profilometer Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Non-Contact Optical Profilometer Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Non-Contact Optical Profilometer Production Value by Region (2021-2026) & (USD Million)

Table 3. World Non-Contact Optical Profilometer Production Value by Region (2027-2032) & (USD Million)

Table 4. World Non-Contact Optical Profilometer Production Value Market Share by Region (2021-2026)

Table 5. World Non-Contact Optical Profilometer Production Value Market Share by Region (2027-2032)

Table 6. World Non-Contact Optical Profilometer Production by Region (2021-2026) & (Units)

Table 7. World Non-Contact Optical Profilometer Production by Region (2027-2032) & (Units)

Table 8. World Non-Contact Optical Profilometer Production Market Share by Region (2021-2026)

Table 9. World Non-Contact Optical Profilometer Production Market Share by Region (2027-2032)

Table 10. World Non-Contact Optical Profilometer Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Non-Contact Optical Profilometer Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Non-Contact Optical Profilometer Major Market Trends

Table 13. World Non-Contact Optical Profilometer Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Non-Contact Optical Profilometer Consumption by Region (2021-2026) & (Units)

Table 15. World Non-Contact Optical Profilometer Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Non-Contact Optical Profilometer Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Non-Contact Optical Profilometer Producers in 2025

Table 18. World Non-Contact Optical Profilometer Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Non-Contact Optical Profilometer Producers in 2025

Table 20. World Non-Contact Optical Profilometer Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Non-Contact Optical Profilometer Company Evaluation Quadrant

Table 22. World Non-Contact Optical Profilometer Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Non-Contact Optical Profilometer Production Site of Key Manufacturer

Table 24. Non-Contact Optical Profilometer Market: Company Product Type Footprint

Table 25. Non-Contact Optical Profilometer Market: Company Product Application Footprint

Table 26. Non-Contact Optical Profilometer Competitive Factors

Table 27. Non-Contact Optical Profilometer New Entrant and Capacity Expansion Plans

Table 28. Non-Contact Optical Profilometer Mergers & Acquisitions Activity

Table 29. United States VS China Non-Contact Optical Profilometer Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Non-Contact Optical Profilometer Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Non-Contact Optical Profilometer Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Non-Contact Optical Profilometer Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Non-Contact Optical Profilometer Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Non-Contact Optical Profilometer Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Non-Contact Optical Profilometer Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Non-Contact Optical Profilometer Production Market Share (2021-2026)

Table 37. China Based Non-Contact Optical Profilometer Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Non-Contact Optical Profilometer Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Non-Contact Optical Profilometer Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Non-Contact Optical Profilometer Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Non-Contact Optical Profilometer Production Market Share (2021-2026)

Table 42. Rest of World Based Non-Contact Optical Profilometer Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Non-Contact Optical Profilometer Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Non-Contact Optical Profilometer Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Non-Contact Optical Profilometer Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Non-Contact Optical Profilometer Production Market Share (2021-2026)

Table 47. World Non-Contact Optical Profilometer Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Non-Contact Optical Profilometer Production by Type (2021-2026) & (Units)

Table 49. World Non-Contact Optical Profilometer Production by Type (2027-2032) & (Units)

Table 50. World Non-Contact Optical Profilometer Production Value by Type (2021-2026) & (USD Million)

Table 51. World Non-Contact Optical Profilometer Production Value by Type (2027-2032) & (USD Million)

Table 52. World Non-Contact Optical Profilometer Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Non-Contact Optical Profilometer Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Non-Contact Optical Profilometer Production Value by Measurement Principle, (USD Million), 2021 & 2025 & 2032

Table 55. World Non-Contact Optical Profilometer Production by Measurement Principle (2021-2026) & (Units)

Table 56. World Non-Contact Optical Profilometer Production by Measurement Principle (2027-2032) & (Units)

Table 57. World Non-Contact Optical Profilometer Production Value by Measurement Principle (2021-2026) & (USD Million)

Table 58. World Non-Contact Optical Profilometer Production Value by Measurement Principle (2027-2032) & (USD Million)

Table 59. World Non-Contact Optical Profilometer Average Price by Measurement Principle (2021-2026) & (US\$/Unit)

Table 60. World Non-Contact Optical Profilometer Average Price by Measurement

Principle (2027-2032) & (US\$/Unit)

Table 61. World Non-Contact Optical Profilometer Production Value by Measurement Capability, (USD Million), 2021 & 2025 & 2032

Table 62. World Non-Contact Optical Profilometer Production by Measurement Capability (2021-2026) & (Units)

Table 63. World Non-Contact Optical Profilometer Production by Measurement Capability (2027-2032) & (Units)

Table 64. World Non-Contact Optical Profilometer Production Value by Measurement Capability (2021-2026) & (USD Million)

Table 65. World Non-Contact Optical Profilometer Production Value by Measurement Capability (2027-2032) & (USD Million)

Table 66. World Non-Contact Optical Profilometer Average Price by Measurement Capability (2021-2026) & (US\$/Unit)

Table 67. World Non-Contact Optical Profilometer Average Price by Measurement Capability (2027-2032) & (US\$/Unit)

Table 68. World Non-Contact Optical Profilometer Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Non-Contact Optical Profilometer Production by Application (2021-2026) & (Units)

Table 70. World Non-Contact Optical Profilometer Production by Application (2027-2032) & (Units)

Table 71. World Non-Contact Optical Profilometer Production Value by Application (2021-2026) & (USD Million)

Table 72. World Non-Contact Optical Profilometer Production Value by Application (2027-2032) & (USD Million)

Table 73. World Non-Contact Optical Profilometer Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Non-Contact Optical Profilometer Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Zygo Basic Information, Manufacturing Base and Competitors

Table 76. Zygo Major Business

Table 77. Zygo Non-Contact Optical Profilometer Product and Services

Table 78. Zygo Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Zygo Recent Developments/Updates

Table 80. Zygo Competitive Strengths & Weaknesses

Table 81. KLA Basic Information, Manufacturing Base and Competitors

Table 82. KLA Major Business

Table 83. KLA Non-Contact Optical Profilometer Product and Services

Table 84. KLA Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. KLA Recent Developments/Updates

Table 86. KLA Competitive Strengths & Weaknesses

Table 87. Sensofar Basic Information, Manufacturing Base and Competitors

Table 88. Sensofar Major Business

Table 89. Sensofar Non-Contact Optical Profilometer Product and Services

Table 90. Sensofar Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Sensofar Recent Developments/Updates

Table 92. Sensofar Competitive Strengths & Weaknesses

Table 93. Taylor Hobson Basic Information, Manufacturing Base and Competitors

Table 94. Taylor Hobson Major Business

Table 95. Taylor Hobson Non-Contact Optical Profilometer Product and Services

Table 96. Taylor Hobson Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Taylor Hobson Recent Developments/Updates

Table 98. Taylor Hobson Competitive Strengths & Weaknesses

Table 99. Bruker Basic Information, Manufacturing Base and Competitors

Table 100. Bruker Major Business

Table 101. Bruker Non-Contact Optical Profilometer Product and Services

Table 102. Bruker Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Bruker Recent Developments/Updates

Table 104. Bruker Competitive Strengths & Weaknesses

Table 105. Atomics Basic Information, Manufacturing Base and Competitors

Table 106. Atomics Major Business

Table 107. Atomics Non-Contact Optical Profilometer Product and Services

Table 108. Atomics Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Atomics Recent Developments/Updates

Table 110. Atomics Competitive Strengths & Weaknesses

Table 111. Alicona Basic Information, Manufacturing Base and Competitors

Table 112. Alicona Major Business

Table 113. Alicona Non-Contact Optical Profilometer Product and Services

- Table 114. Alicona Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Alicona Recent Developments/Updates
- Table 116. Alicona Competitive Strengths & Weaknesses
- Table 117. 4D Technology Basic Information, Manufacturing Base and Competitors
- Table 118. 4D Technology Major Business
- Table 119. 4D Technology Non-Contact Optical Profilometer Product and Services
- Table 120. 4D Technology Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. 4D Technology Recent Developments/Updates
- Table 122. 4D Technology Competitive Strengths & Weaknesses
- Table 123. Cyber Technologies Basic Information, Manufacturing Base and Competitors
- Table 124. Cyber Technologies Major Business
- Table 125. Cyber Technologies Non-Contact Optical Profilometer Product and Services
- Table 126. Cyber Technologies Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Cyber Technologies Recent Developments/Updates
- Table 128. Cyber Technologies Competitive Strengths & Weaknesses
- Table 129. Nanovea Basic Information, Manufacturing Base and Competitors
- Table 130. Nanovea Major Business
- Table 131. Nanovea Non-Contact Optical Profilometer Product and Services
- Table 132. Nanovea Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Nanovea Recent Developments/Updates
- Table 134. Nanovea Competitive Strengths & Weaknesses
- Table 135. Mahr Basic Information, Manufacturing Base and Competitors
- Table 136. Mahr Major Business
- Table 137. Mahr Non-Contact Optical Profilometer Product and Services
- Table 138. Mahr Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Mahr Recent Developments/Updates
- Table 140. Mahr Competitive Strengths & Weaknesses
- Table 141. FRT Basic Information, Manufacturing Base and Competitors
- Table 142. FRT Major Business
- Table 143. FRT Non-Contact Optical Profilometer Product and Services

- Table 144. FRT Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. FRT Recent Developments/Updates
- Table 146. FRT Competitive Strengths & Weaknesses
- Table 147. AEP Technology Basic Information, Manufacturing Base and Competitors
- Table 148. AEP Technology Major Business
- Table 149. AEP Technology Non-Contact Optical Profilometer Product and Services
- Table 150. AEP Technology Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. AEP Technology Recent Developments/Updates
- Table 152. AEP Technology Competitive Strengths & Weaknesses
- Table 153. Polytec Basic Information, Manufacturing Base and Competitors
- Table 154. Polytec Major Business
- Table 155. Polytec Non-Contact Optical Profilometer Product and Services
- Table 156. Polytec Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. Polytec Recent Developments/Updates
- Table 158. Polytec Competitive Strengths & Weaknesses
- Table 159. Chotest Technology Basic Information, Manufacturing Base and Competitors
- Table 160. Chotest Technology Major Business
- Table 161. Chotest Technology Non-Contact Optical Profilometer Product and Services
- Table 162. Chotest Technology Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. Chotest Technology Recent Developments/Updates
- Table 164. Chotest Technology Competitive Strengths & Weaknesses
- Table 165. SmartVision Basic Information, Manufacturing Base and Competitors
- Table 166. SmartVision Major Business
- Table 167. SmartVision Non-Contact Optical Profilometer Product and Services
- Table 168. SmartVision Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. SmartVision Recent Developments/Updates
- Table 170. SmartVision Competitive Strengths & Weaknesses
- Table 171. Foerster Instruments Basic Information, Manufacturing Base and Competitors
- Table 172. Foerster Instruments Major Business

Table 173. Foerster Instruments Non-Contact Optical Profilometer Product and Services

Table 174. Foerster Instruments Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Foerster Instruments Recent Developments/Updates

Table 176. Foerster Instruments Competitive Strengths & Weaknesses

Table 177. NanoFocus Basic Information, Manufacturing Base and Competitors

Table 178. NanoFocus Major Business

Table 179. NanoFocus Non-Contact Optical Profilometer Product and Services

Table 180. NanoFocus Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. NanoFocus Recent Developments/Updates

Table 182. NanoFocus Competitive Strengths & Weaknesses

Table 183. OSTEK Instruments Basic Information, Manufacturing Base and Competitors

Table 184. OSTEK Instruments Major Business

Table 185. OSTEK Instruments Non-Contact Optical Profilometer Product and Services

Table 186. OSTEK Instruments Non-Contact Optical Profilometer Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. OSTEK Instruments Recent Developments/Updates

Table 188. OSTEK Instruments Competitive Strengths & Weaknesses

Table 189. Global Key Players of Non-Contact Optical Profilometer Upstream (Raw Materials)

Table 190. Global Non-Contact Optical Profilometer Typical Customers

Table 191. Non-Contact Optical Profilometer Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Non-Contact Optical Profilometer Picture

Figure 2. World Non-Contact Optical Profilometer Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Non-Contact Optical Profilometer Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Non-Contact Optical Profilometer Production (2021-2032) & (Units)

Figure 5. World Non-Contact Optical Profilometer Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Non-Contact Optical Profilometer Production Value Market Share by Region (2021-2032)

Figure 7. World Non-Contact Optical Profilometer Production Market Share by Region (2021-2032)

Figure 8. North America Non-Contact Optical Profilometer Production (2021-2032) & (Units)

Figure 9. Europe Non-Contact Optical Profilometer Production (2021-2032) & (Units)

Figure 10. China Non-Contact Optical Profilometer Production (2021-2032) & (Units)

Figure 11. Japan Non-Contact Optical Profilometer Production (2021-2032) & (Units)

Figure 12. Non-Contact Optical Profilometer Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Non-Contact Optical Profilometer Consumption (2021-2032) & (Units)

Figure 15. World Non-Contact Optical Profilometer Consumption Market Share by Region (2021-2032)

Figure 16. United States Non-Contact Optical Profilometer Consumption (2021-2032) & (Units)

Figure 17. China Non-Contact Optical Profilometer Consumption (2021-2032) & (Units)

Figure 18. Europe Non-Contact Optical Profilometer Consumption (2021-2032) & (Units)

Figure 19. Japan Non-Contact Optical Profilometer Consumption (2021-2032) & (Units)

Figure 20. South Korea Non-Contact Optical Profilometer Consumption (2021-2032) & (Units)

Figure 21. ASEAN Non-Contact Optical Profilometer Consumption (2021-2032) & (Units)

Figure 22. India Non-Contact Optical Profilometer Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Non-Contact Optical Profilometer by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Non-Contact Optical Profilometer Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Non-Contact Optical Profilometer Markets in 2025

Figure 26. United States VS China: Non-Contact Optical Profilometer Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Non-Contact Optical Profilometer Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Non-Contact Optical Profilometer Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Non-Contact Optical Profilometer Production Market Share 2025

Figure 30. China Based Manufacturers Non-Contact Optical Profilometer Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Non-Contact Optical Profilometer Production Market Share 2025

Figure 32. World Non-Contact Optical Profilometer Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Non-Contact Optical Profilometer Production Value Market Share by Type in 2025

Figure 34. Desktop Optical Profilometer

Figure 35. Portable Optical Profilometer

Figure 36. World Non-Contact Optical Profilometer Production Market Share by Type (2021-2032)

Figure 37. World Non-Contact Optical Profilometer Production Value Market Share by Type (2021-2032)

Figure 38. World Non-Contact Optical Profilometer Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Non-Contact Optical Profilometer Production Value by Measurement Principle, (USD Million), 2021 & 2025 & 2032

Figure 40. World Non-Contact Optical Profilometer Production Value Market Share by Measurement Principle in 2025

Figure 41. White Light Interferometry Profilometer

Figure 42. Confocal Optical Profilometer

Figure 43. Laser Scanning Profilometer

Figure 44. Phase-Shifting Interferometry Profilometer

Figure 45. World Non-Contact Optical Profilometer Production Market Share by Measurement Principle (2021-2032)

Figure 46. World Non-Contact Optical Profilometer Production Value Market Share by

Measurement Principle (2021-2032)

Figure 47. World Non-Contact Optical Profilometer Average Price by Measurement Principle (2021-2032) & (US\$/Unit)

Figure 48. World Non-Contact Optical Profilometer Production Value by Measurement Capability, (USD Million), 2021 & 2025 & 2032

Figure 49. World Non-Contact Optical Profilometer Production Value Market Share by Measurement Capability in 2025

Figure 50. 2D Surface Profilometer

Figure 51. 3D Surface Profilometer

Figure 52. World Non-Contact Optical Profilometer Production Market Share by Measurement Capability (2021-2032)

Figure 53. World Non-Contact Optical Profilometer Production Value Market Share by Measurement Capability (2021-2032)

Figure 54. World Non-Contact Optical Profilometer Average Price by Measurement Capability (2021-2032) & (US\$/Unit)

Figure 55. World Non-Contact Optical Profilometer Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Non-Contact Optical Profilometer Production Value Market Share by Application in 2025

Figure 57. Electronic and Semiconductor

Figure 58. MEMS Industry

Figure 59. Automotive and Aerospace

Figure 60. Life Science

Figure 61. Others

Figure 62. World Non-Contact Optical Profilometer Production Market Share by Application (2021-2032)

Figure 63. World Non-Contact Optical Profilometer Production Value Market Share by Application (2021-2032)

Figure 64. World Non-Contact Optical Profilometer Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. Non-Contact Optical Profilometer Industry Chain

Figure 66. Non-Contact Optical Profilometer Procurement Model

Figure 67. Non-Contact Optical Profilometer Sales Model

Figure 68. Non-Contact Optical Profilometer Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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