

Global Aerospace 3D Measurement Hardware Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aerospace 3D Measurement Hardware market size is expected to reach \$ 2015 million by 2032, rising at a market growth of 9.3% CAGR during the forecast period (2026-2032).

Aerospace 3D measurement hardware refers to professional-grade optical and mechanical measurement hardware devices used in the research, development, manufacturing, final assembly, maintenance, repair, and overhaul of aircraft (including fixed-wing, rotorcraft, UAVs, spacecraft, and launch vehicles) for capturing three-dimensional topography, geometric dimensions, spatial position, and deformation data of airframe structures, critical engine components, tooling fixtures, and assembly interfaces. The scope includes large-volume laser trackers, articulated arm measuring machines, industrial photogrammetry systems, long-range 3D scanners, automated inline measurement cells, and portable 3D scanning hardware, with accuracy ranging from micron to sub-millimeter levels.

The global aerospace 3D measurement hardware market is estimated at approximately USD 1.05 billion in 2025, projected to reach USD 1.15 billion in 2026, representing a CAGR of roughly 9.5%. Pricing exhibits clear stratification by deployment scenario: shop-floor large-volume metrology hardware such as laser trackers and articulated arms typically range from USD 80,000 to USD 250,000 per unit; field and MRO portable scanning hardware including handheld structured light scanners and compact photogrammetry kits fall between USD 30,000 and USD 120,000; tooling and jig certification systems range from USD 50,000 to USD 200,000; automated inline measurement cells, which integrate robotic handling and production line interfaces, command USD 200,000 to over USD 1.5 million per unit; precision component scanning hardware ranges from USD 50,000 to USD 180,000. Gross margins for hardware-

focused companies generally fall between 50% and 65%, with FARO reporting Q1 2025 non-GAAP gross margin of approximately 57.7%, Hexagon's industrial metrology segment operating at approximately 55% to 60%, and ZEISS Industrial Quality Solutions maintaining similar margins. Downstream applications are concentrated: Airframe Manufacturing & Assembly constitutes the largest single demand segment, accounting for over one-third of total industry demand, covering fuselage panel drilling and fastening inspection, wing-to-fuselage join alignment, and door and control surface gap/flush verification. Aero-Engine Manufacturing & MRO represents the second-largest application area, with turbine blade and blisk airfoil inspection, compressor case roundness measurement, and blade tip clearance verification forming core demand. Spacecraft & Launch Vehicle Structure manufacturing, Tooling & Production Fixtures certification, and Maintenance, Repair & Overhaul constitute substantial installed base markets. Research, Development & Flight Test, while smaller in volume, commands the highest technical barriers and richest gross margins. Upstream critical components include high-precision laser interferometer modules, absolute distance meters, rotary encoders, high-resolution industrial cameras, and embedded image processing chips, with top-tier specifications remaining concentrated among German, Japanese, Swiss, and U.S. suppliers. Downstream channels rely on direct manufacturer sales and local system integrators, with major aerospace OEMs favoring direct procurement of bespoke inline measurement cells, while MRO service providers predominantly source portable measurement hardware through distribution channels. The competitive landscape is characterized by entrenched incumbents and ascendant challengers: Hexagon, ZEISS, Nikon, API, and FARO (acquired by AMETEK) leverage decades of technical expertise and global service networks to dominate high-end categories including laser trackers, articulated arms, and automated inline measurement cells; Creaform maintains differentiated advantages in portable blue-light scanning hardware; Chinese manufacturers including Scantech, Shining 3D, ZG Technology, Chotest, and Vision 3D are accelerating penetration in handheld scanning and mid-range laser tracking hardware, with Vision 3D's automated surface structured light scanning systems having achieved import substitution in aero-engine blade inspection, delivering accuracy of 0.02mm. Uncertainties concentrate on three fronts: first, export control risks on high-end CMOS image sensors and specialized laser interferometer modules may constrain the speed at which Chinese players attain top-tier accuracy thresholds; second, escalating global trade tensions and tariff adjustments directly impact imported hardware costs and multinational supply chain configurations; third, the lack of uniform industry standards for data interoperability and production line adaptability across different vendors' automated inline measurement systems constrains large-scale aerospace project replication. Conclusion: The aerospace 3D measurement hardware industry is in the

mid-growth stage, fundamentally driven by production ramp-up of next-generation narrow-body aircraft and spacecraft, expanding aero-engine MRO demand, and the systemic long-term migration from sampling-based to 100% inspection. The structural hallmark of the current landscape is a tiered competitive dynamic wherein Western and Japanese incumbents retain control of high-end metrology and automated line solutions while Chinese players accelerate substitution in mid-range segments and progressively extend into online automation applications.

This report studies the global Aerospace 3D Measurement Hardware production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aerospace 3D Measurement Hardware 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 Aerospace 3D Measurement Hardware that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Aerospace 3D Measurement Hardware total production and demand, 2021-2032, (Units)

Global Aerospace 3D Measurement Hardware total production value, 2021-2032, (USD Million)

Global Aerospace 3D Measurement Hardware production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Aerospace 3D Measurement Hardware consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Aerospace 3D Measurement Hardware domestic production, consumption, key domestic manufacturers and share

Global Aerospace 3D Measurement Hardware production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Aerospace 3D Measurement Hardware production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Aerospace 3D Measurement Hardware production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Aerospace 3D Measurement Hardware 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 Hexagon, ZEISS, Nikon, Keyence, FARO (AMETEK's subsidiary), AMETEK / Creaform, API (Automated Precision), Leica Geosystems (Hexagon's subsidiary), Renishaw, Cognex, 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 Aerospace 3D Measurement Hardware 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 Aerospace 3D Measurement Hardware Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aerospace 3D Measurement Hardware Market, Segmentation by Type:

Laser Tracker

Articulated Arm CMM

Industrial Photogrammetry

3D Laser Scanner (Long-Range)

Automated Inline Measurement Cell

Portable Structured Light Scanner

Global Aerospace 3D Measurement Hardware Market, Segmentation by Deployment:

Shop-Floor Large-Volume Metrology (\$80K?\$250K)

Field & MRO Portable Scanning (\$30K?\$120K)

Tooling & Jig Certification (\$50K?\$200K)

Inline Automation Cell (\$200K?\$1.5M+)

Precision Component Scanning (\$50K?\$180K)

Global Aerospace 3D Measurement Hardware Market, Segmentation by Application:

Airframe Manufacturing & Assembly

Aero-Engine Manufacturing & MRO

Spacecraft & Launch Vehicle Structure

Tooling & Production Fixtures

Maintenance, Repair & Overhaul

Research, Development & Flight Test

Others

Companies Profiled:

Hexagon

ZEISS

Nikon

Keyence

FARO (AMETEK's subsidiary)

AMETEK / Creaform

API (Automated Precision)

Leica Geosystems (Hexagon's subsidiary)

Renishaw

Cognex

Brunson Instrument

Kreon Technologies

Scantech

Shining 3D

ZG Technology

PMT Technology

Chotest

Vision 3D

RPS Metrology

Tomelleri

LK Metrology

Trimos

Jenoptik

Hiwe SqS

HOLON 3D

Tianjin Laigao Vision

CimCore

Control Nice

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Aerospace 3D Measurement Hardware Introduction
- 1.2 World Aerospace 3D Measurement Hardware Supply & Forecast
 - 1.2.1 World Aerospace 3D Measurement Hardware Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Aerospace 3D Measurement Hardware Production (2021-2032)
 - 1.2.3 World Aerospace 3D Measurement Hardware Pricing Trends (2021-2032)
- 1.3 World Aerospace 3D Measurement Hardware Production by Region (Based on Production Site)
 - 1.3.1 World Aerospace 3D Measurement Hardware Production Value by Region (2021-2032)
 - 1.3.2 World Aerospace 3D Measurement Hardware Production by Region (2021-2032)
 - 1.3.3 World Aerospace 3D Measurement Hardware Average Price by Region (2021-2032)
 - 1.3.4 North America Aerospace 3D Measurement Hardware Production (2021-2032)
 - 1.3.5 Europe Aerospace 3D Measurement Hardware Production (2021-2032)
 - 1.3.6 China Aerospace 3D Measurement Hardware Production (2021-2032)
 - 1.3.7 Japan Aerospace 3D Measurement Hardware Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Aerospace 3D Measurement Hardware Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Aerospace 3D Measurement Hardware Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Aerospace 3D Measurement Hardware Demand (2021-2032)
- 2.2 World Aerospace 3D Measurement Hardware Consumption by Region
 - 2.2.1 World Aerospace 3D Measurement Hardware Consumption by Region (2021-2026)
 - 2.2.2 World Aerospace 3D Measurement Hardware Consumption Forecast by Region (2027-2032)
- 2.3 United States Aerospace 3D Measurement Hardware Consumption (2021-2032)
- 2.4 China Aerospace 3D Measurement Hardware Consumption (2021-2032)
- 2.5 Europe Aerospace 3D Measurement Hardware Consumption (2021-2032)
- 2.6 Japan Aerospace 3D Measurement Hardware Consumption (2021-2032)
- 2.7 South Korea Aerospace 3D Measurement Hardware Consumption (2021-2032)

2.8 ASEAN Aerospace 3D Measurement Hardware Consumption (2021-2032)

2.9 India Aerospace 3D Measurement Hardware Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Aerospace 3D Measurement Hardware Production Value by Manufacturer (2021-2026)

3.2 World Aerospace 3D Measurement Hardware Production by Manufacturer (2021-2026)

3.3 World Aerospace 3D Measurement Hardware Average Price by Manufacturer (2021-2026)

3.4 Aerospace 3D Measurement Hardware Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Aerospace 3D Measurement Hardware Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Aerospace 3D Measurement Hardware in 2025

3.5.3 Global Concentration Ratios (CR8) for Aerospace 3D Measurement Hardware in 2025

3.6 Aerospace 3D Measurement Hardware Market: Overall Company Footprint Analysis

3.6.1 Aerospace 3D Measurement Hardware Market: Region Footprint

3.6.2 Aerospace 3D Measurement Hardware Market: Company Product Type Footprint

3.6.3 Aerospace 3D Measurement Hardware 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: Aerospace 3D Measurement Hardware Production Value Comparison

4.1.1 United States VS China: Aerospace 3D Measurement Hardware Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Aerospace 3D Measurement Hardware Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Aerospace 3D Measurement Hardware Production Comparison

4.2.1 United States VS China: Aerospace 3D Measurement Hardware Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Aerospace 3D Measurement Hardware Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Aerospace 3D Measurement Hardware Consumption Comparison

4.3.1 United States VS China: Aerospace 3D Measurement Hardware Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Aerospace 3D Measurement Hardware Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Aerospace 3D Measurement Hardware Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Aerospace 3D Measurement Hardware Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Aerospace 3D Measurement Hardware Production Value (2021-2026)

4.4.3 United States Based Manufacturers Aerospace 3D Measurement Hardware Production (2021-2026)

4.5 China Based Aerospace 3D Measurement Hardware Manufacturers and Market Share

4.5.1 China Based Aerospace 3D Measurement Hardware Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Aerospace 3D Measurement Hardware Production Value (2021-2026)

4.5.3 China Based Manufacturers Aerospace 3D Measurement Hardware Production (2021-2026)

4.6 Rest of World Based Aerospace 3D Measurement Hardware Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Aerospace 3D Measurement Hardware Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Aerospace 3D Measurement Hardware Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Aerospace 3D Measurement Hardware Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Aerospace 3D Measurement Hardware Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Laser Tracker

5.2.2 Articulated Arm CMM

5.2.3 Industrial Photogrammetry

5.2.4 3D Laser Scanner (Long-Range)

5.2.5 Automated Inline Measurement Cell

5.2.6 Portable Structured Light Scanner

5.3 Market Segment by Type

5.3.1 World Aerospace 3D Measurement Hardware Production by Type (2021-2032)

5.3.2 World Aerospace 3D Measurement Hardware Production Value by Type (2021-2032)

5.3.3 World Aerospace 3D Measurement Hardware Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DEPLOYMENT

6.1 World Aerospace 3D Measurement Hardware Market Size Overview by Deployment: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Deployment

6.2.1 Shop-Floor Large-Volume Metrology (\$80K?\$250K)

6.2.2 Field & MRO Portable Scanning (\$30K?\$120K)

6.2.3 Tooling & Jig Certification (\$50K?\$200K)

6.2.4 Inline Automation Cell (\$200K?\$1.5M+)

6.2.5 Precision Component Scanning (\$50K?\$180K)

6.3 Market Segment by Deployment

6.3.1 World Aerospace 3D Measurement Hardware Production by Deployment (2021-2032)

6.3.2 World Aerospace 3D Measurement Hardware Production Value by Deployment (2021-2032)

6.3.3 World Aerospace 3D Measurement Hardware Average Price by Deployment (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Aerospace 3D Measurement Hardware Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Airframe Manufacturing & Assembly

- 7.2.2 Aero-Engine Manufacturing & MRO
- 7.2.3 Spacecraft & Launch Vehicle Structure
- 7.2.4 Tooling & Production Fixtures
- 7.2.5 Maintenance, Repair & Overhaul
- 7.2.6 Research, Development & Flight Test
- 7.2.7 Others
- 7.3 Market Segment by Application
 - 7.3.1 World Aerospace 3D Measurement Hardware Production by Application (2021-2032)
 - 7.3.2 World Aerospace 3D Measurement Hardware Production Value by Application (2021-2032)
 - 7.3.3 World Aerospace 3D Measurement Hardware Average Price by Application (2021-2032)

8 COMPANY PROFILES

- 8.1 Hexagon
 - 8.1.1 Hexagon Details
 - 8.1.2 Hexagon Major Business
 - 8.1.3 Hexagon Aerospace 3D Measurement Hardware Product and Services
 - 8.1.4 Hexagon Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.1.5 Hexagon Recent Developments/Updates
 - 8.1.6 Hexagon Competitive Strengths & Weaknesses
- 8.2 ZEISS
 - 8.2.1 ZEISS Details
 - 8.2.2 ZEISS Major Business
 - 8.2.3 ZEISS Aerospace 3D Measurement Hardware Product and Services
 - 8.2.4 ZEISS Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.2.5 ZEISS Recent Developments/Updates
 - 8.2.6 ZEISS Competitive Strengths & Weaknesses
- 8.3 Nikon
 - 8.3.1 Nikon Details
 - 8.3.2 Nikon Major Business
 - 8.3.3 Nikon Aerospace 3D Measurement Hardware Product and Services
 - 8.3.4 Nikon Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.3.5 Nikon Recent Developments/Updates

8.3.6 Nikon Competitive Strengths & Weaknesses

8.4 Keyence

8.4.1 Keyence Details

8.4.2 Keyence Major Business

8.4.3 Keyence Aerospace 3D Measurement Hardware Product and Services

8.4.4 Keyence Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 Keyence Recent Developments/Updates

8.4.6 Keyence Competitive Strengths & Weaknesses

8.5 FARO (AMETEK's subsidiary)

8.5.1 FARO (AMETEK's subsidiary) Details

8.5.2 FARO (AMETEK's subsidiary) Major Business

8.5.3 FARO (AMETEK's subsidiary) Aerospace 3D Measurement Hardware Product and Services

8.5.4 FARO (AMETEK's subsidiary) Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.5.5 FARO (AMETEK's subsidiary) Recent Developments/Updates

8.5.6 FARO (AMETEK's subsidiary) Competitive Strengths & Weaknesses

8.6 AMETEK / Creaform

8.6.1 AMETEK / Creaform Details

8.6.2 AMETEK / Creaform Major Business

8.6.3 AMETEK / Creaform Aerospace 3D Measurement Hardware Product and Services

8.6.4 AMETEK / Creaform Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 AMETEK / Creaform Recent Developments/Updates

8.6.6 AMETEK / Creaform Competitive Strengths & Weaknesses

8.7 API (Automated Precision)

8.7.1 API (Automated Precision) Details

8.7.2 API (Automated Precision) Major Business

8.7.3 API (Automated Precision) Aerospace 3D Measurement Hardware Product and Services

8.7.4 API (Automated Precision) Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 API (Automated Precision) Recent Developments/Updates

8.7.6 API (Automated Precision) Competitive Strengths & Weaknesses

8.8 Leica Geosystems (Hexagon's subsidiary)

8.8.1 Leica Geosystems (Hexagon's subsidiary) Details

8.8.2 Leica Geosystems (Hexagon's subsidiary) Major Business

8.8.3 Leica Geosystems (Hexagon's subsidiary) Aerospace 3D Measurement Hardware Product and Services

8.8.4 Leica Geosystems (Hexagon's subsidiary) Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Leica Geosystems (Hexagon's subsidiary) Recent Developments/Updates

8.8.6 Leica Geosystems (Hexagon's subsidiary) Competitive Strengths & Weaknesses

8.9 Renishaw

8.9.1 Renishaw Details

8.9.2 Renishaw Major Business

8.9.3 Renishaw Aerospace 3D Measurement Hardware Product and Services

8.9.4 Renishaw Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 Renishaw Recent Developments/Updates

8.9.6 Renishaw Competitive Strengths & Weaknesses

8.10 Cognex

8.10.1 Cognex Details

8.10.2 Cognex Major Business

8.10.3 Cognex Aerospace 3D Measurement Hardware Product and Services

8.10.4 Cognex Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 Cognex Recent Developments/Updates

8.10.6 Cognex Competitive Strengths & Weaknesses

8.11 Brunson Instrument

8.11.1 Brunson Instrument Details

8.11.2 Brunson Instrument Major Business

8.11.3 Brunson Instrument Aerospace 3D Measurement Hardware Product and Services

8.11.4 Brunson Instrument Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.11.5 Brunson Instrument Recent Developments/Updates

8.11.6 Brunson Instrument Competitive Strengths & Weaknesses

8.12 Kreon Technologies

8.12.1 Kreon Technologies Details

8.12.2 Kreon Technologies Major Business

8.12.3 Kreon Technologies Aerospace 3D Measurement Hardware Product and Services

8.12.4 Kreon Technologies Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.12.5 Kreon Technologies Recent Developments/Updates

8.12.6 Kreon Technologies Competitive Strengths & Weaknesses

8.13 Scantech

8.13.1 Scantech Details

8.13.2 Scantech Major Business

8.13.3 Scantech Aerospace 3D Measurement Hardware Product and Services

8.13.4 Scantech Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.13.5 Scantech Recent Developments/Updates

8.13.6 Scantech Competitive Strengths & Weaknesses

8.14 Shining 3D

8.14.1 Shining 3D Details

8.14.2 Shining 3D Major Business

8.14.3 Shining 3D Aerospace 3D Measurement Hardware Product and Services

8.14.4 Shining 3D Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.14.5 Shining 3D Recent Developments/Updates

8.14.6 Shining 3D Competitive Strengths & Weaknesses

8.15 ZG Technology

8.15.1 ZG Technology Details

8.15.2 ZG Technology Major Business

8.15.3 ZG Technology Aerospace 3D Measurement Hardware Product and Services

8.15.4 ZG Technology Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.15.5 ZG Technology Recent Developments/Updates

8.15.6 ZG Technology Competitive Strengths & Weaknesses

8.16 PMT Technology

8.16.1 PMT Technology Details

8.16.2 PMT Technology Major Business

8.16.3 PMT Technology Aerospace 3D Measurement Hardware Product and Services

8.16.4 PMT Technology Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.16.5 PMT Technology Recent Developments/Updates

8.16.6 PMT Technology Competitive Strengths & Weaknesses

8.17 Chotest

8.17.1 Chotest Details

8.17.2 Chotest Major Business

8.17.3 Chotest Aerospace 3D Measurement Hardware Product and Services

8.17.4 Chotest Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 8.17.5 Chotest Recent Developments/Updates
- 8.17.6 Chotest Competitive Strengths & Weaknesses
- 8.18 Vision 3D
 - 8.18.1 Vision 3D Details
 - 8.18.2 Vision 3D Major Business
 - 8.18.3 Vision 3D Aerospace 3D Measurement Hardware Product and Services
 - 8.18.4 Vision 3D Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.18.5 Vision 3D Recent Developments/Updates
 - 8.18.6 Vision 3D Competitive Strengths & Weaknesses
- 8.19 RPS Metrology
 - 8.19.1 RPS Metrology Details
 - 8.19.2 RPS Metrology Major Business
 - 8.19.3 RPS Metrology Aerospace 3D Measurement Hardware Product and Services
 - 8.19.4 RPS Metrology Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.19.5 RPS Metrology Recent Developments/Updates
 - 8.19.6 RPS Metrology Competitive Strengths & Weaknesses
- 8.20 Tomelleri
 - 8.20.1 Tomelleri Details
 - 8.20.2 Tomelleri Major Business
 - 8.20.3 Tomelleri Aerospace 3D Measurement Hardware Product and Services
 - 8.20.4 Tomelleri Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.20.5 Tomelleri Recent Developments/Updates
 - 8.20.6 Tomelleri Competitive Strengths & Weaknesses
- 8.21 LK Metrology
 - 8.21.1 LK Metrology Details
 - 8.21.2 LK Metrology Major Business
 - 8.21.3 LK Metrology Aerospace 3D Measurement Hardware Product and Services
 - 8.21.4 LK Metrology Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.21.5 LK Metrology Recent Developments/Updates
 - 8.21.6 LK Metrology Competitive Strengths & Weaknesses
- 8.22 Trimos
 - 8.22.1 Trimos Details
 - 8.22.2 Trimos Major Business
 - 8.22.3 Trimos Aerospace 3D Measurement Hardware Product and Services
 - 8.22.4 Trimos Aerospace 3D Measurement Hardware Production, Price, Value, Gross

Margin and Market Share (2021-2026)

8.22.5 Trimos Recent Developments/Updates

8.22.6 Trimos Competitive Strengths & Weaknesses

8.23 Jenoptik

8.23.1 Jenoptik Details

8.23.2 Jenoptik Major Business

8.23.3 Jenoptik Aerospace 3D Measurement Hardware Product and Services

8.23.4 Jenoptik Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.23.5 Jenoptik Recent Developments/Updates

8.23.6 Jenoptik Competitive Strengths & Weaknesses

8.24 Hiwe SqS

8.24.1 Hiwe SqS Details

8.24.2 Hiwe SqS Major Business

8.24.3 Hiwe SqS Aerospace 3D Measurement Hardware Product and Services

8.24.4 Hiwe SqS Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.24.5 Hiwe SqS Recent Developments/Updates

8.24.6 Hiwe SqS Competitive Strengths & Weaknesses

8.25 HOLON 3D

8.25.1 HOLON 3D Details

8.25.2 HOLON 3D Major Business

8.25.3 HOLON 3D Aerospace 3D Measurement Hardware Product and Services

8.25.4 HOLON 3D Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.25.5 HOLON 3D Recent Developments/Updates

8.25.6 HOLON 3D Competitive Strengths & Weaknesses

8.26 Tianjin Laigao Vision

8.26.1 Tianjin Laigao Vision Details

8.26.2 Tianjin Laigao Vision Major Business

8.26.3 Tianjin Laigao Vision Aerospace 3D Measurement Hardware Product and Services

8.26.4 Tianjin Laigao Vision Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.26.5 Tianjin Laigao Vision Recent Developments/Updates

8.26.6 Tianjin Laigao Vision Competitive Strengths & Weaknesses

8.27 CimCore

8.27.1 CimCore Details

8.27.2 CimCore Major Business

- 8.27.3 CimCore Aerospace 3D Measurement Hardware Product and Services
- 8.27.4 CimCore Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.27.5 CimCore Recent Developments/Updates
- 8.27.6 CimCore Competitive Strengths & Weaknesses
- 8.28 Control Nice
 - 8.28.1 Control Nice Details
 - 8.28.2 Control Nice Major Business
 - 8.28.3 Control Nice Aerospace 3D Measurement Hardware Product and Services
 - 8.28.4 Control Nice Aerospace 3D Measurement Hardware Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.28.5 Control Nice Recent Developments/Updates
 - 8.28.6 Control Nice Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

- 9.1 Aerospace 3D Measurement Hardware Industry Chain
- 9.2 Aerospace 3D Measurement Hardware Upstream Analysis
 - 9.2.1 Aerospace 3D Measurement Hardware Core Raw Materials
 - 9.2.2 Main Manufacturers of Aerospace 3D Measurement Hardware Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 Aerospace 3D Measurement Hardware Production Mode
- 9.6 Aerospace 3D Measurement Hardware Procurement Model
- 9.7 Aerospace 3D Measurement Hardware Industry Sales Model and Sales Channels
 - 9.7.1 Aerospace 3D Measurement Hardware Sales Model
 - 9.7.2 Aerospace 3D Measurement Hardware Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

- 11.1 Methodology
- 11.2 Research Process and Data Source
- 11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Aerospace 3D Measurement Hardware Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Aerospace 3D Measurement Hardware Production Value by Region (2021-2026) & (USD Million)

Table 3. World Aerospace 3D Measurement Hardware Production Value by Region (2027-2032) & (USD Million)

Table 4. World Aerospace 3D Measurement Hardware Production Value Market Share by Region (2021-2026)

Table 5. World Aerospace 3D Measurement Hardware Production Value Market Share by Region (2027-2032)

Table 6. World Aerospace 3D Measurement Hardware Production by Region (2021-2026) & (Units)

Table 7. World Aerospace 3D Measurement Hardware Production by Region (2027-2032) & (Units)

Table 8. World Aerospace 3D Measurement Hardware Production Market Share by Region (2021-2026)

Table 9. World Aerospace 3D Measurement Hardware Production Market Share by Region (2027-2032)

Table 10. World Aerospace 3D Measurement Hardware Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Aerospace 3D Measurement Hardware Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Aerospace 3D Measurement Hardware Major Market Trends

Table 13. World Aerospace 3D Measurement Hardware Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Aerospace 3D Measurement Hardware Consumption by Region (2021-2026) & (Units)

Table 15. World Aerospace 3D Measurement Hardware Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Aerospace 3D Measurement Hardware Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Aerospace 3D Measurement Hardware Producers in 2025

Table 18. World Aerospace 3D Measurement Hardware Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Aerospace 3D Measurement Hardware Producers in 2025

Table 20. World Aerospace 3D Measurement Hardware Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Aerospace 3D Measurement Hardware Company Evaluation Quadrant

Table 22. World Aerospace 3D Measurement Hardware Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Aerospace 3D Measurement Hardware Production Site of Key Manufacturer

Table 24. Aerospace 3D Measurement Hardware Market: Company Product Type Footprint

Table 25. Aerospace 3D Measurement Hardware Market: Company Product Application Footprint

Table 26. Aerospace 3D Measurement Hardware Competitive Factors

Table 27. Aerospace 3D Measurement Hardware New Entrant and Capacity Expansion Plans

Table 28. Aerospace 3D Measurement Hardware Mergers & Acquisitions Activity

Table 29. United States VS China Aerospace 3D Measurement Hardware Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Aerospace 3D Measurement Hardware Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Aerospace 3D Measurement Hardware Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Aerospace 3D Measurement Hardware Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Aerospace 3D Measurement Hardware Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Aerospace 3D Measurement Hardware Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Aerospace 3D Measurement Hardware Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Aerospace 3D Measurement Hardware Production Market Share (2021-2026)

Table 37. China Based Aerospace 3D Measurement Hardware Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Aerospace 3D Measurement Hardware Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Aerospace 3D Measurement Hardware Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Aerospace 3D Measurement Hardware Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Aerospace 3D Measurement Hardware Production Market Share (2021-2026)

Table 42. Rest of World Based Aerospace 3D Measurement Hardware Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Aerospace 3D Measurement Hardware Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Aerospace 3D Measurement Hardware Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Aerospace 3D Measurement Hardware Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Aerospace 3D Measurement Hardware Production Market Share (2021-2026)

Table 47. World Aerospace 3D Measurement Hardware Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Aerospace 3D Measurement Hardware Production by Type (2021-2026) & (Units)

Table 49. World Aerospace 3D Measurement Hardware Production by Type (2027-2032) & (Units)

Table 50. World Aerospace 3D Measurement Hardware Production Value by Type (2021-2026) & (USD Million)

Table 51. World Aerospace 3D Measurement Hardware Production Value by Type (2027-2032) & (USD Million)

Table 52. World Aerospace 3D Measurement Hardware Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Aerospace 3D Measurement Hardware Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Aerospace 3D Measurement Hardware Production Value by Deployment, (USD Million), 2021 & 2025 & 2032

Table 55. World Aerospace 3D Measurement Hardware Production by Deployment (2021-2026) & (Units)

Table 56. World Aerospace 3D Measurement Hardware Production by Deployment (2027-2032) & (Units)

Table 57. World Aerospace 3D Measurement Hardware Production Value by Deployment (2021-2026) & (USD Million)

Table 58. World Aerospace 3D Measurement Hardware Production Value by Deployment (2027-2032) & (USD Million)

Table 59. World Aerospace 3D Measurement Hardware Average Price by Deployment

(2021-2026) & (US\$/Unit)

Table 60. World Aerospace 3D Measurement Hardware Average Price by Deployment
(2027-2032) & (US\$/Unit)

Table 61. World Aerospace 3D Measurement Hardware Production Value by
Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Aerospace 3D Measurement Hardware Production by Application
(2021-2026) & (Units)

Table 63. World Aerospace 3D Measurement Hardware Production by Application
(2027-2032) & (Units)

Table 64. World Aerospace 3D Measurement Hardware Production Value by
Application (2021-2026) & (USD Million)

Table 65. World Aerospace 3D Measurement Hardware Production Value by
Application (2027-2032) & (USD Million)

Table 66. World Aerospace 3D Measurement Hardware Average Price by Application
(2021-2026) & (US\$/Unit)

Table 67. World Aerospace 3D Measurement Hardware Average Price by Application
(2027-2032) & (US\$/Unit)

Table 68. Hexagon Basic Information, Manufacturing Base and Competitors

Table 69. Hexagon Major Business

Table 70. Hexagon Aerospace 3D Measurement Hardware Product and Services

Table 71. Hexagon Aerospace 3D Measurement Hardware Production (Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 72. Hexagon Recent Developments/Updates

Table 73. Hexagon Competitive Strengths & Weaknesses

Table 74. ZEISS Basic Information, Manufacturing Base and Competitors

Table 75. ZEISS Major Business

Table 76. ZEISS Aerospace 3D Measurement Hardware Product and Services

Table 77. ZEISS Aerospace 3D Measurement Hardware Production (Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 78. ZEISS Recent Developments/Updates

Table 79. ZEISS Competitive Strengths & Weaknesses

Table 80. Nikon Basic Information, Manufacturing Base and Competitors

Table 81. Nikon Major Business

Table 82. Nikon Aerospace 3D Measurement Hardware Product and Services

Table 83. Nikon Aerospace 3D Measurement Hardware Production (Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 84. Nikon Recent Developments/Updates

Table 85. Nikon Competitive Strengths & Weaknesses

Table 86. Keyence Basic Information, Manufacturing Base and Competitors

Table 87. Keyence Major Business

Table 88. Keyence Aerospace 3D Measurement Hardware Product and Services

Table 89. Keyence Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Keyence Recent Developments/Updates

Table 91. Keyence Competitive Strengths & Weaknesses

Table 92. FARO (AMETEK's subsidiary) Basic Information, Manufacturing Base and Competitors

Table 93. FARO (AMETEK's subsidiary) Major Business

Table 94. FARO (AMETEK's subsidiary) Aerospace 3D Measurement Hardware Product and Services

Table 95. FARO (AMETEK's subsidiary) Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. FARO (AMETEK's subsidiary) Recent Developments/Updates

Table 97. FARO (AMETEK's subsidiary) Competitive Strengths & Weaknesses

Table 98. AMETEK / Creaform Basic Information, Manufacturing Base and Competitors

Table 99. AMETEK / Creaform Major Business

Table 100. AMETEK / Creaform Aerospace 3D Measurement Hardware Product and Services

Table 101. AMETEK / Creaform Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. AMETEK / Creaform Recent Developments/Updates

Table 103. AMETEK / Creaform Competitive Strengths & Weaknesses

Table 104. API (Automated Precision) Basic Information, Manufacturing Base and Competitors

Table 105. API (Automated Precision) Major Business

Table 106. API (Automated Precision) Aerospace 3D Measurement Hardware Product and Services

Table 107. API (Automated Precision) Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. API (Automated Precision) Recent Developments/Updates

Table 109. API (Automated Precision) Competitive Strengths & Weaknesses

Table 110. Leica Geosystems (Hexagon's subsidiary) Basic Information, Manufacturing Base and Competitors

Table 111. Leica Geosystems (Hexagon's subsidiary) Major Business

Table 112. Leica Geosystems (Hexagon's subsidiary) Aerospace 3D Measurement Hardware Product and Services

Table 113. Leica Geosystems (Hexagon's subsidiary) Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Leica Geosystems (Hexagon's subsidiary) Recent Developments/Updates

Table 115. Leica Geosystems (Hexagon's subsidiary) Competitive Strengths & Weaknesses

Table 116. Renishaw Basic Information, Manufacturing Base and Competitors

Table 117. Renishaw Major Business

Table 118. Renishaw Aerospace 3D Measurement Hardware Product and Services

Table 119. Renishaw Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Renishaw Recent Developments/Updates

Table 121. Renishaw Competitive Strengths & Weaknesses

Table 122. Cognex Basic Information, Manufacturing Base and Competitors

Table 123. Cognex Major Business

Table 124. Cognex Aerospace 3D Measurement Hardware Product and Services

Table 125. Cognex Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Cognex Recent Developments/Updates

Table 127. Cognex Competitive Strengths & Weaknesses

Table 128. Brunson Instrument Basic Information, Manufacturing Base and Competitors

Table 129. Brunson Instrument Major Business

Table 130. Brunson Instrument Aerospace 3D Measurement Hardware Product and Services

Table 131. Brunson Instrument Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Brunson Instrument Recent Developments/Updates

Table 133. Brunson Instrument Competitive Strengths & Weaknesses

Table 134. Kreon Technologies Basic Information, Manufacturing Base and Competitors

Table 135. Kreon Technologies Major Business

Table 136. Kreon Technologies Aerospace 3D Measurement Hardware Product and

Services

Table 137. Kreon Technologies Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Kreon Technologies Recent Developments/Updates

Table 139. Kreon Technologies Competitive Strengths & Weaknesses

Table 140. Scantech Basic Information, Manufacturing Base and Competitors

Table 141. Scantech Major Business

Table 142. Scantech Aerospace 3D Measurement Hardware Product and Services

Table 143. Scantech Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. Scantech Recent Developments/Updates

Table 145. Scantech Competitive Strengths & Weaknesses

Table 146. Shining 3D Basic Information, Manufacturing Base and Competitors

Table 147. Shining 3D Major Business

Table 148. Shining 3D Aerospace 3D Measurement Hardware Product and Services

Table 149. Shining 3D Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. Shining 3D Recent Developments/Updates

Table 151. Shining 3D Competitive Strengths & Weaknesses

Table 152. ZG Technology Basic Information, Manufacturing Base and Competitors

Table 153. ZG Technology Major Business

Table 154. ZG Technology Aerospace 3D Measurement Hardware Product and Services

Table 155. ZG Technology Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 156. ZG Technology Recent Developments/Updates

Table 157. ZG Technology Competitive Strengths & Weaknesses

Table 158. PMT Technology Basic Information, Manufacturing Base and Competitors

Table 159. PMT Technology Major Business

Table 160. PMT Technology Aerospace 3D Measurement Hardware Product and Services

Table 161. PMT Technology Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 162. PMT Technology Recent Developments/Updates

Table 163. PMT Technology Competitive Strengths & Weaknesses

Table 164. Chotest Basic Information, Manufacturing Base and Competitors

Table 165. Chotest Major Business

Table 166. Chotest Aerospace 3D Measurement Hardware Product and Services

Table 167. Chotest Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 168. Chotest Recent Developments/Updates

Table 169. Chotest Competitive Strengths & Weaknesses

Table 170. Vision 3D Basic Information, Manufacturing Base and Competitors

Table 171. Vision 3D Major Business

Table 172. Vision 3D Aerospace 3D Measurement Hardware Product and Services

Table 173. Vision 3D Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 174. Vision 3D Recent Developments/Updates

Table 175. Vision 3D Competitive Strengths & Weaknesses

Table 176. RPS Metrology Basic Information, Manufacturing Base and Competitors

Table 177. RPS Metrology Major Business

Table 178. RPS Metrology Aerospace 3D Measurement Hardware Product and Services

Table 179. RPS Metrology Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 180. RPS Metrology Recent Developments/Updates

Table 181. RPS Metrology Competitive Strengths & Weaknesses

Table 182. Tomelleri Basic Information, Manufacturing Base and Competitors

Table 183. Tomelleri Major Business

Table 184. Tomelleri Aerospace 3D Measurement Hardware Product and Services

Table 185. Tomelleri Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 186. Tomelleri Recent Developments/Updates

Table 187. Tomelleri Competitive Strengths & Weaknesses

Table 188. LK Metrology Basic Information, Manufacturing Base and Competitors

Table 189. LK Metrology Major Business

Table 190. LK Metrology Aerospace 3D Measurement Hardware Product and Services

Table 191. LK Metrology Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 192. LK Metrology Recent Developments/Updates

Table 193. LK Metrology Competitive Strengths & Weaknesses

Table 194. Trimos Basic Information, Manufacturing Base and Competitors

Table 195. Trimos Major Business

Table 196. Trimos Aerospace 3D Measurement Hardware Product and Services

Table 197. Trimos Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 198. Trimos Recent Developments/Updates

Table 199. Trimos Competitive Strengths & Weaknesses

Table 200. Jenoptik Basic Information, Manufacturing Base and Competitors

Table 201. Jenoptik Major Business

Table 202. Jenoptik Aerospace 3D Measurement Hardware Product and Services

Table 203. Jenoptik Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 204. Jenoptik Recent Developments/Updates

Table 205. Jenoptik Competitive Strengths & Weaknesses

Table 206. Hiwe SqS Basic Information, Manufacturing Base and Competitors

Table 207. Hiwe SqS Major Business

Table 208. Hiwe SqS Aerospace 3D Measurement Hardware Product and Services

Table 209. Hiwe SqS Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 210. Hiwe SqS Recent Developments/Updates

Table 211. Hiwe SqS Competitive Strengths & Weaknesses

Table 212. HOLON 3D Basic Information, Manufacturing Base and Competitors

Table 213. HOLON 3D Major Business

Table 214. HOLON 3D Aerospace 3D Measurement Hardware Product and Services

Table 215. HOLON 3D Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 216. HOLON 3D Recent Developments/Updates

Table 217. HOLON 3D Competitive Strengths & Weaknesses

Table 218. Tianjin Laigao Vision Basic Information, Manufacturing Base and Competitors

Table 219. Tianjin Laigao Vision Major Business

Table 220. Tianjin Laigao Vision Aerospace 3D Measurement Hardware Product and

Services

Table 221. Tianjin Laigao Vision Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 222. Tianjin Laigao Vision Recent Developments/Updates

Table 223. Tianjin Laigao Vision Competitive Strengths & Weaknesses

Table 224. CimCore Basic Information, Manufacturing Base and Competitors

Table 225. CimCore Major Business

Table 226. CimCore Aerospace 3D Measurement Hardware Product and Services

Table 227. CimCore Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 228. CimCore Recent Developments/Updates

Table 229. CimCore Competitive Strengths & Weaknesses

Table 230. Control Nice Basic Information, Manufacturing Base and Competitors

Table 231. Control Nice Major Business

Table 232. Control Nice Aerospace 3D Measurement Hardware Product and Services

Table 233. Control Nice Aerospace 3D Measurement Hardware Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 234. Control Nice Recent Developments/Updates

Table 235. Control Nice Competitive Strengths & Weaknesses

Table 236. Global Key Players of Aerospace 3D Measurement Hardware Upstream (Raw Materials)

Table 237. Global Aerospace 3D Measurement Hardware Typical Customers

Table 238. Aerospace 3D Measurement Hardware Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Aerospace 3D Measurement Hardware Picture
- Figure 2. World Aerospace 3D Measurement Hardware Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Aerospace 3D Measurement Hardware Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Aerospace 3D Measurement Hardware Production (2021-2032) & (Units)
- Figure 5. World Aerospace 3D Measurement Hardware Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Aerospace 3D Measurement Hardware Production Value Market Share by Region (2021-2032)
- Figure 7. World Aerospace 3D Measurement Hardware Production Market Share by Region (2021-2032)
- Figure 8. North America Aerospace 3D Measurement Hardware Production (2021-2032) & (Units)
- Figure 9. Europe Aerospace 3D Measurement Hardware Production (2021-2032) & (Units)
- Figure 10. China Aerospace 3D Measurement Hardware Production (2021-2032) & (Units)
- Figure 11. Japan Aerospace 3D Measurement Hardware Production (2021-2032) & (Units)
- Figure 12. Aerospace 3D Measurement Hardware Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Aerospace 3D Measurement Hardware Consumption (2021-2032) & (Units)
- Figure 15. World Aerospace 3D Measurement Hardware Consumption Market Share by Region (2021-2032)
- Figure 16. United States Aerospace 3D Measurement Hardware Consumption (2021-2032) & (Units)
- Figure 17. China Aerospace 3D Measurement Hardware Consumption (2021-2032) & (Units)
- Figure 18. Europe Aerospace 3D Measurement Hardware Consumption (2021-2032) & (Units)
- Figure 19. Japan Aerospace 3D Measurement Hardware Consumption (2021-2032) & (Units)

Figure 20. South Korea Aerospace 3D Measurement Hardware Consumption (2021-2032) & (Units)

Figure 21. ASEAN Aerospace 3D Measurement Hardware Consumption (2021-2032) & (Units)

Figure 22. India Aerospace 3D Measurement Hardware Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Aerospace 3D Measurement Hardware by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Aerospace 3D Measurement Hardware Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Aerospace 3D Measurement Hardware Markets in 2025

Figure 26. United States VS China: Aerospace 3D Measurement Hardware Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Aerospace 3D Measurement Hardware Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Aerospace 3D Measurement Hardware Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Aerospace 3D Measurement Hardware Production Market Share 2025

Figure 30. China Based Manufacturers Aerospace 3D Measurement Hardware Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Aerospace 3D Measurement Hardware Production Market Share 2025

Figure 32. World Aerospace 3D Measurement Hardware Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Aerospace 3D Measurement Hardware Production Value Market Share by Type in 2025

Figure 34. Laser Tracker

Figure 35. Articulated Arm CMM

Figure 36. Industrial Photogrammetry

Figure 37. 3D Laser Scanner (Long-Range)

Figure 38. Automated Inline Measurement Cell

Figure 39. Portable Structured Light Scanner

Figure 40. World Aerospace 3D Measurement Hardware Production Market Share by Type (2021-2032)

Figure 41. World Aerospace 3D Measurement Hardware Production Value Market Share by Type (2021-2032)

Figure 42. World Aerospace 3D Measurement Hardware Average Price by Type

(2021-2032) & (US\$/Unit)

Figure 43. World Aerospace 3D Measurement Hardware Production Value by Deployment, (USD Million), 2021 & 2025 & 2032

Figure 44. World Aerospace 3D Measurement Hardware Production Value Market Share by Deployment in 2025

Figure 45. Shop-Floor Large-Volume Metrology (\$80K?\$250K)

Figure 46. Field & MRO Portable Scanning (\$30K?\$120K)

Figure 47. Tooling & Jig Certification (\$50K?\$200K)

Figure 48. Inline Automation Cell (\$200K?\$1.5M+)

Figure 49. Precision Component Scanning (\$50K?\$180K)

Figure 50. World Aerospace 3D Measurement Hardware Production Market Share by Deployment (2021-2032)

Figure 51. World Aerospace 3D Measurement Hardware Production Value Market Share by Deployment (2021-2032)

Figure 52. World Aerospace 3D Measurement Hardware Average Price by Deployment (2021-2032) & (US\$/Unit)

Figure 53. World Aerospace 3D Measurement Hardware Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 54. World Aerospace 3D Measurement Hardware Production Value Market Share by Application in 2025

Figure 55. Airframe Manufacturing & Assembly

Figure 56. Aero-Engine Manufacturing & MRO

Figure 57. Spacecraft & Launch Vehicle Structure

Figure 58. Tooling & Production Fixtures

Figure 59. Maintenance, Repair & Overhaul

Figure 60. Research, Development & Flight Test

Figure 61. Others

Figure 62. World Aerospace 3D Measurement Hardware Production Market Share by Application (2021-2032)

Figure 63. World Aerospace 3D Measurement Hardware Production Value Market Share by Application (2021-2032)

Figure 64. World Aerospace 3D Measurement Hardware Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. Aerospace 3D Measurement Hardware Industry Chain

Figure 66. Aerospace 3D Measurement Hardware Procurement Model

Figure 67. Aerospace 3D Measurement Hardware Sales Model

Figure 68. Aerospace 3D Measurement Hardware Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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