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Global 3D Machine Vision for Manufacturing Market Growth 2025-2031

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Abstracts

The global 3D Machine Vision for Manufacturing market size is predicted to grow from US$ 1861 million in 2025 to US$ 3402 million in 2031; it is expected to grow at a CAGR of 10.6% from 2025 to 2031.

3D machine vision systems for the manufacturing industry use advanced imaging technologies to capture three-dimensional data, enabling machines and robots to inspect, measure, and analyze parts and assemblies with high precision. These systems utilize stereoscopic cameras, laser scanners, or structured light sensors to create 3D models of objects, offering detailed insights into shape, size, and surface features. In manufacturing, 3D machine vision is crucial for tasks such as quality control, dimensional verification, part alignment, and robotic guidance. It enhances the efficiency, accuracy, and consistency of production processes, particularly in high-precision industries like automotive, electronics, and aerospace.

United States market for 3D Machine Vision for Manufacturing is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for 3D Machine Vision for Manufacturing is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for 3D Machine Vision for Manufacturing is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key 3D Machine Vision for Manufacturing players cover Keyence, Kinemetrix, Mech-Mind Robotics, Yaskawa Motoman, RobotWorx, etc. In terms of revenue, the

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global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “3D Machine Vision for Manufacturing Industry Forecast” looks at past sales and reviews total world 3D Machine Vision for Manufacturing sales in 2024, providing a comprehensive analysis by region and market sector of projected 3D Machine Vision for Manufacturing sales for 2025 through 2031. With 3D Machine Vision for Manufacturing sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world 3D Machine Vision for Manufacturing industry.

This Insight Report provides a comprehensive analysis of the global 3D Machine Vision for Manufacturing landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 3D Machine Vision for Manufacturing portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global 3D Machine Vision for Manufacturing market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 3D Machine Vision for Manufacturing and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 3D Machine Vision for Manufacturing.

This report presents a comprehensive overview, market shares, and growth opportunities of 3D Machine Vision for Manufacturing market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Time-of-Flight (ToF) Cameras

Structured Light Systems

Segmentation by Application:

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Quality Inspection and Defect Identification

Automated Assembly and Material Handling

Positioning and Navigation

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

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France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Keyence

Kinemetrix

Mech-Mind Robotics

Yaskawa Motoman

RobotWorx

Zivid

Denso Wave

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TECHMAN ROBOT

OMD O?

FANUC America

Key Questions Addressed in this Report
What is the 10-year outlook for the global 3D Machine Vision for Manufacturing market?
What factors are driving 3D Machine Vision for Manufacturing market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do 3D Machine Vision for Manufacturing market opportunities vary by end market size?
How does 3D Machine Vision for Manufacturing break out by Type, by Application?

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