

Global Material Identification and Positioning Technology Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Material Identification and Positioning Technology market size is expected to reach \$ 12930 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

To address the problems of low efficiency, insufficient positioning accuracy, and information lag that can easily disrupt production cycles in traditional material management, material identification and positioning technology was developed. Since its inception in the late 20th century, material identification and positioning technology has seen significant advancements in intelligent manufacturing and automated logistics. Currently, material identification and positioning technology encompasses various types, including RFID, machine vision, LiDAR SLAM, and UWB indoor positioning, and is widely used in intelligent warehousing, flexible manufacturing, end-to-end traceability, and unmanned delivery, significantly improving material flow efficiency and operational accuracy.

Material identification and positioning technology achieves accurate and real-time material management through the integration of multiple technologies, widely applied across various industries to improve efficiency and reduce costs. Future development trends include intelligence, real-time operation, multi-technology integration, and user-friendliness, while also addressing technical challenges such as signal interference, data security, and cost issues. With policy support (such as the Ministry of Industry and Information Technology's 'Notice on Promoting the Development of Mobile Internet of Things 'Intelligent Connection of Everything') and technological advancements, this technology will achieve deep value realization in more scenarios, driving digital transformation.

This report studies the global Material Identification and Positioning Technology demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Material Identification and Positioning Technology, 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 Material Identification and Positioning Technology that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Material Identification and Positioning Technology total market, 2021-2032, (USD Million)

Global Material Identification and Positioning Technology total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Material Identification and Positioning Technology total market, key domestic companies, and share, (USD Million)

Global Material Identification and Positioning Technology revenue by player, revenue and market share 2021-2026, (USD Million)

Global Material Identification and Positioning Technology total market by Type, CAGR, 2021-2032, (USD Million)

Global Material Identification and Positioning Technology total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Material Identification and Positioning Technology market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Zebra Technologies, Honeywell, Keyence Corporation, SICK AG, Datalogic, Cognex, Omron, Panasonic Industry, Toshiba Tec, SATO Holdings, 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 Material Identification and Positioning Technology market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Material Identification and Positioning Technology Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Material Identification and Positioning Technology Market, Segmentation by Type:

Radio Frequency Identification (RFID)

Visual Recognition

Global Material Identification and Positioning Technology Market, Segmentation by Sensors:

LiDAR

Ultrasonic Sensor

Global Material Identification and Positioning Technology Market, Segmentation by Location Methods:

Triangulation

Structured Light Method

Global Material Identification and Positioning Technology Market, Segmentation by Application:

Logistics & Warehousing

Smart Manufacturing

Medical & Pharmaceutical

Transportation

Other

Companies Profiled:

Zebra Technologies

Honeywell

Keyence Corporation

SICK AG

Datalogic

Cognex

Omron

Panasonic Industry

Toshiba Tec

SATO Holdings

Impinj

NXP Semiconductors

Avery Dennison

HID Global

Identiv

Alien Technology

Invengo

Siemens

Cisco Systems

Ubisense

Kinexon

Sewio Networks

Key Questions Answered

1. How big is the global Material Identification and Positioning Technology market?
2. What is the demand of the global Material Identification and Positioning Technology market?
3. What is the year over year growth of the global Material Identification and Positioning Technology market?
4. What is the total value of the global Material Identification and Positioning Technology

market?

5. Who are the Major Players in the global Material Identification and Positioning Technology market?

6. What are the growth factors driving the market demand?

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