

Global Material Identification and Positioning Technology Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Material Identification and Positioning Technology market size was valued at US\$ 8216 million in 2025 and is forecast to a readjusted size of US\$ 12930 million by 2032 with a CAGR of 6.7% during review period.

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 is a detailed and comprehensive analysis for global Material Identification and Positioning Technology market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Material Identification and Positioning Technology market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Material Identification and Positioning Technology market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Material Identification and Positioning Technology market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Material Identification and Positioning Technology market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Material Identification and Positioning Technology

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key 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.

Market segmentation

Material Identification and Positioning Technology market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Radio Frequency Identification (RFID)

- Visual Recognition

Market segment by Sensors

- LiDAR

- Ultrasonic Sensor

Market segment by Location Methods

- Triangulation

- Structured Light Method

Market segment by Application

- Logistics & Warehousing

Smart Manufacturing

Medical & Pharmaceutical

Transportation

Other

Market segment by players, this report covers

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

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Material Identification and Positioning Technology product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Material Identification and Positioning Technology, with revenue, gross margin, and global market share of Material Identification and Positioning Technology from 2021 to 2026.

Chapter 3, the Material Identification and Positioning Technology competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Material Identification and Positioning Technology market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Material Identification and Positioning Technology.

Chapter 13, to describe Material Identification and Positioning Technology research findings and conclusion.

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