

Global Laser SLAM Navigation Module for Mobile Robots Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Laser SLAM Navigation Module for Mobile Robots market size is expected to reach \$ 1455 million by 2032, rising at a market growth of 12.3% CAGR during the forecast period (2026-2032).

A Laser SLAM Navigation Module for mobile robots is a localization, mapping, navigation, and motion-control enabling module designed for AMRs, AGVs, automated forklifts, service robots, commercial cleaning robots, inspection robots, and autonomous mobile platforms. It typically combines 2D or 3D LiDAR sensors, safety laser scanners, embedded computing hardware, SLAM algorithms, map management, localization, path planning, obstacle avoidance, vehicle-control interfaces, communication protocols, and deployment software. By detecting natural environmental features such as walls, pillars, racks, machines, aisles, and fixed structural contours, the module enables a mobile robot to build or use a map, estimate its position, plan safe routes, recover from localization errors, and navigate without extensive physical guidance infrastructure. Commercial product forms include standalone navigation controllers, laser-based localization software, navigation SDKs, LiDAR-plus-SLAM kits, and integrated robot control platforms. This study focuses on laser/LiDAR-based SLAM localization and navigation modules used in mobile robots and industrial logistics vehicles, where the core value lies in reducing infrastructure dependency, improving deployment flexibility, and enabling reliable autonomous navigation in dynamic indoor industrial environments.

From an industry-definition perspective, a laser SLAM navigation module should be understood as a system-level enabling component rather than a standalone LiDAR sensor. Its core function is to integrate perception, localization, mapping, path planning, and vehicle-control interfaces so that AMRs, AGVs, automated forklifts, and other

autonomous mobile platforms can move without heavy dependence on magnetic tape, QR codes, reflectors, or wired guidance infrastructure. This distinction is critical for market sizing and vendor screening. The core formal list should therefore prioritize companies that publicly provide navigation controllers, LiDAR localization software, SLAM modules, SDKs, or vehicle-control navigation systems to robot OEMs, integrators, or end users.

From the demand side, growth is being driven by the shift from fixed-path AGVs to flexible AMRs and automated forklifts, especially in manufacturing logistics, line-side delivery, e-commerce warehousing, third-party logistics, electronics, automotive, pharmaceuticals, and commercial service robotics. Product evolution is moving from basic 2D LiDAR scan matching to multi-sensor fusion, 3D LiDAR SLAM, AI-assisted localization, robust relocalization, dynamic map updating, and interoperability with heterogeneous fleet-management systems. Visual SLAM and QR-code navigation will continue to compete in specific low-cost or highly structured environments, but laser SLAM remains attractive where lighting conditions, environmental variability, safety requirements, and deployment speed matter.

This report studies the global Laser SLAM Navigation Module for Mobile Robots production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Laser SLAM Navigation Module for Mobile Robots 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 Laser SLAM Navigation Module for Mobile Robots that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Laser SLAM Navigation Module for Mobile Robots total production and demand, 2021-2032, (Units)

Global Laser SLAM Navigation Module for Mobile Robots total production value, 2021-2032, (USD Million)

Global Laser SLAM Navigation Module for Mobile Robots production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Laser SLAM Navigation Module for Mobile Robots consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Laser SLAM Navigation Module for Mobile Robots domestic production, consumption, key domestic manufacturers and share

Global Laser SLAM Navigation Module for Mobile Robots production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Laser SLAM Navigation Module for Mobile Robots production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Laser SLAM Navigation Module for Mobile Robots production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Laser SLAM Navigation Module for Mobile Robots 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 Robert Bosch GmbH (Bosch Rexroth AG), Daifuku Co., Ltd., Regal Rexnord Corporation (Kollmorgen Corporation), SSI SCH?FER Group (DS AUTOMOTION GmbH), SICK AG, ZAPI GROUP (BlueBotics SA), Duravant LLC, Shanghai SEER Intelligent Technology Co., Ltd., Shanghai SLAMTEC Co., Ltd., Navitec Systems Oy, 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 Laser SLAM Navigation Module for Mobile Robots 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 Laser SLAM Navigation Module for Mobile Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Laser SLAM Navigation Module for Mobile Robots Market, Segmentation by Type:

Navigation Controller

SLAM Software Module

Other

Global Laser SLAM Navigation Module for Mobile Robots Market, Segmentation by Navigation Technology:

2D LiDAR SLAM

3D LiDAR SLAM

Other

Global Laser SLAM Navigation Module for Mobile Robots Market, Segmentation by Robot Platform:

AMR Platform

AGV Platform

Other

Global Laser SLAM Navigation Module for Mobile Robots Market, Segmentation by Application:

Path Planning

Obstacle Avoidance

Autonomous Driving Control

Relocalization and Recovery

Other

Companies Profiled:

Robert Bosch GmbH (Bosch Rexroth AG)

Daifuku Co., Ltd.

Regal Rexnord Corporation (Kollmorgen Corporation)

SSI SCH?FER Group (DS AUTOMOTION GmbH)

SICK AG

ZAPI GROUP (BlueBotics SA)

Duravant LLC

Shanghai SEER Intelligent Technology Co., Ltd.

Shanghai SLAMTEC Co., Ltd.

Navitec Systems Oy

Leishen Intelligent System Co., Ltd.

Zhejiang Kecong Control Technology Co., Ltd.

BALYO SA

Key Questions Answered:

1. How big is the global Laser SLAM Navigation Module for Mobile Robots market?
2. What is the demand of the global Laser SLAM Navigation Module for Mobile Robots market?
3. What is the year over year growth of the global Laser SLAM Navigation Module for Mobile Robots market?
4. What is the production and production value of the global Laser SLAM Navigation Module for Mobile Robots market?
5. Who are the key producers in the global Laser SLAM Navigation Module for Mobile Robots market?
6. What are the growth factors driving the market demand?

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