

Global AMR for Semiconductor Market Growth 2026-2032

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Abstracts

The global AMR for Semiconductor market size is predicted to grow from US\$ 273 million in 2025 to US\$ 435 million in 2032; it is expected to grow at a CAGR of 7.0% from 2026 to 2032.

Autonomous Mobile Robots (AMRs) for the semiconductor industry are advanced, self-navigating transport systems designed to operate within high-precision manufacturing environments, particularly semiconductor fabs. Unlike traditional AGVs (Automated Guided Vehicles) or RGVs (Rail Guided Vehicles), AMRs utilize onboard sensors, SLAM (Simultaneous Localization and Mapping) algorithms, and AI-based navigation technologies to autonomously plan and adapt their routes without fixed infrastructure. These systems are primarily used for handling and transferring FOUPs (Front Opening Unified Pods), reticles, chemicals, and other critical materials within Class 1–100 cleanroom environments. AMRs in this sector can be categorized into several types, including FOUP-handling AMRs, heavy-load transport AMRs, cleanroom-compliant AMRs, vertical-lift AMRs, and multi-unit coordinated AMRs, depending on their payload capacity, form factor, and specific application scenarios.

Looking ahead, the integration of AMRs in semiconductor fabs is expected to accelerate due to the growing need for high-mix, low-volume manufacturing and flexible automation in advanced nodes and packaging lines. Key trends shaping the future of this market include: (1) intelligent interoperability, where AMRs are seamlessly connected to fab-wide MES, WMS, and APC systems, enabling real-time data exchange and coordinated material flow; (2) cleanroom optimization, with enhanced HEPA filtration, particle-free design, and compliance with ISO cleanliness standards; and (3) localization and ecosystem development, as countries like China, South Korea, and Japan drive domestic AMR technology platforms to reduce reliance on foreign

automation suppliers. As fabs move toward lights-out and hyper-automated operations, AMRs are poised to become critical components of next-generation AMHS (Automated Material Handling Systems), offering unmatched flexibility, scalability, and intelligence.

LP Information, Inc. (LPI) ' newest research report, the “AMR for Semiconductor Industry Forecast” looks at past sales and reviews total world AMR for Semiconductor sales in 2025, providing a comprehensive analysis by region and market sector of projected AMR for Semiconductor sales for 2026 through 2032. With AMR for Semiconductor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AMR for Semiconductor industry.

This Insight Report provides a comprehensive analysis of the global AMR for Semiconductor 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 AMR for Semiconductor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AMR for Semiconductor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AMR for Semiconductor 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 AMR for Semiconductor.

This report presents a comprehensive overview, market shares, and growth opportunities of AMR for Semiconductor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Laser SLAM AMR

Visual SLAM AMR

Segmentation by Application:

Wafer Manufacturing

IC Packaging & Testing

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

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.

Fabmatics

YOUIBOT Robotics

Gyrobot Technology (Suzhou)

Standard Robots

TOTA

DAIFUKU

Murata Machinery (Muratec)

Omron Automation

SFA Engineering Corporation

SMCore

SYNUS Tech (Suzhou Nsynu Semiconductor Equipment)

Kenmec Mechanical Engineering

Gallant Precision Machining (GPM)

Shanghai Fortrend Technology

KUKA

Mirle Automation Corporation

TECHMAN ROBOT INC

Lam Research

Enabled Robotics

Hangzhou Iplusrobot Technology

Beijing Sineva Technology

SEER Robotics

Key Questions Addressed in this Report

What is the 10-year outlook for the global AMR for Semiconductor market?

What factors are driving AMR for Semiconductor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do AMR for Semiconductor market opportunities vary by end market size?

How does AMR for Semiconductor break out by Type, by Application?

The report requires updating with new data and is sent in 48 hours after order is placed.

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