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Global Intelligent Robotics Market Size Study & Forecast, by Robot Type (Industrial Robots, Service Robots (Ground, Underwater), Collaborative Robots) by Mobility (Fixed, Mobile) by Application (Personal & Domestic Assistance, Industrial Automation) and Regional Forecasts 2025–2035

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Abstracts

The Global Intelligent Robotics Market is valued at approximately USD 10.83 billion in 2024 and is projected to grow with a robust CAGR of 29.20% over the forecast period 2025–2035. Intelligent robotics refers to advanced robotic systems that integrate artificial intelligence, machine learning, and sensor technologies to perform complex tasks autonomously or semi-autonomously. These robots are capable of perceiving, reasoning, and adapting to their environments, making them crucial across industries ranging from manufacturing and logistics to healthcare, defense, and personal assistance. The exponential rise in automation, coupled with rapid digital transformation and the emergence of Industry 4.0, is fueling demand for intelligent robots. Businesses are investing heavily in adaptive systems that can optimize operations, minimize human intervention, and enhance precision. Additionally, the global labor shortage, aging workforce, and escalating labor costs have encouraged enterprises to accelerate automation adoption through intelligent robotics.

The proliferation of AI-driven robotics in both industrial and service sectors has catalyzed the evolution of the intelligent robotics landscape. From automotive assembly lines to domestic caregiving, these robots are redefining productivity and operational efficiency. According to the International Federation of Robotics (IFR), the global stock of operational industrial robots surpassed 3.5 million units in 2023, with service robots witnessing even faster adoption in commercial and household applications. The

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integration of IoT connectivity, natural language processing, and edge computing enables robots to collaborate seamlessly with human counterparts and other machines. Furthermore, governments worldwide are supporting automation initiatives through funding and digitalization policies, which are accelerating the commercialization of intelligent robotic platforms. However, high initial capital expenditure and cybersecurity concerns regarding autonomous systems pose challenges to market expansion. Nonetheless, continuous advancements in deep learning algorithms, sensory technologies, and human–robot interaction are expected to unlock significant growth potential in the years ahead.

The detailed segments and sub-segments included in the report are:

By Robot Type:

Industrial Robots

Service Robots (Ground, Underwater)

Collaborative Robots

By Mobility:

Fixed

Mobile

By Application:

Personal & Domestic Assistance

Industrial Automation

By Region:

North America

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U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

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Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Industrial Robots Expected to Dominate the Market

Industrial robots are expected to dominate the global intelligent robotics market, accounting for the largest market share throughout the forecast period. These robots, equipped with advanced vision systems and adaptive programming capabilities, are increasingly utilized across automotive, electronics, and metal industries to ensure precision and reduce manufacturing defects. The surge in global demand for electric vehicles, along with the adoption of fully automated production lines, has further accelerated the integration of intelligent industrial robots. Their ability to perform high-speed assembly, welding, painting, and inspection tasks with remarkable consistency gives them a strategic edge. Additionally, industries are leveraging cloud robotics and AI-based predictive maintenance to optimize equipment performance and minimize downtime. While traditional robots have been crucial to industrial efficiency for decades, the infusion of intelligence and autonomy has transformed them into dynamic, learning assets that can evolve with manufacturing needs.

Service Robots Lead in Revenue Contribution

Service robots currently generate the highest revenue in the intelligent robotics market, driven by their expanding applications across domestic, healthcare, and logistics sectors. These robots, ranging from autonomous delivery systems and cleaning bots to underwater inspection drones and personal assistants, are increasingly integrated into everyday life. The post-pandemic acceleration in contactless operations and healthcare automation has amplified the deployment of service robots worldwide. For instance, hospitals are adopting autonomous service robots for patient assistance and

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sanitization, while logistics companies employ intelligent delivery robots to improve last-mile efficiency. Technological advances in natural language processing, emotion recognition, and environmental mapping are making service robots more interactive and efficient. Although industrial robots lead in volume, the service segment continues to dominate in terms of revenue generation, propelled by the premium pricing of multifunctional AI-driven units and growing adoption across non-industrial domains.

The key regions considered for the Global Intelligent Robotics Market study include North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. Asia Pacific is expected to hold the dominant position in 2025, driven by the strong presence of manufacturing giants, favorable government initiatives for AI innovation, and significant investment in robotics infrastructure across China, Japan, and South Korea. North America follows closely, owing to rapid advancements in autonomous systems and a thriving ecosystem of robotics startups supported by venture capital funding. Europe’s focus on ethical AI, sustainability, and automation in industrial sectors continues to make it a crucial contributor to market growth. Meanwhile, the Middle East & Africa and Latin America are emerging as promising regions due to growing automation in manufacturing and infrastructure sectors, coupled with expanding use of intelligent service robots in security and logistics applications.

Major market players included in this report are:

ABB Ltd.

Fanuc Corporation

SoftBank Robotics Group

Siemens AG

Yaskawa Electric Corporation

KUKA AG

Amazon Robotics LLC

Mitsubishi Electric Corporation

Hanson Robotics Ltd.

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Omron Corporation

Boston Dynamics Inc.

Universal Robots A/S

Robotics Systems Integration Ltd.

DJI Innovations

Blue Ocean Robotics

Global Intelligent Robotics Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for

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stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained above.

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2025 to 2035.
- Annualized revenues and regional-level analysis for each market segment.
- Detailed analysis of the geographical landscape with country-level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of the competitive structure of the market.
- Demand side and supply side analysis of the market.

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