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Intelligent Robotics Market by Robot Type (Industrial Robots, Service Robots (Ground, Underwater), Collaborative Robots), Mobility (Fixed, Mobile), Application (Personal & Domestic Assistance, Industrial Automation and Region - Global Forecast to 2030

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Abstracts

The global intelligent robotics market is expected to grow from USD 13.99 billion in 2025 to USD 50.33 billion by 2030 at a CAGR of 29.2% from 2025 to 2030. The global intelligent robotics market is largely fuelled by governmental support and policy initiatives to accelerate modern technology adoption. Governments across developed and emerging economies prioritize digital transformation, automation, and AI integration into critical sectors, such as manufacturing, healthcare, defence, and infrastructure. These strategic imperatives are translated into funding programs, tax incentives, R&D subsidies, and innovation grants, directly benefiting intelligent robotics companies and startups.

“Mobile robots segment is expected to account for the largest market share in 2030.”

The use of mobile robots is propelled by their applications in logistics, healthcare, defense, and manufacturing industries. These robots, with the ability to navigate changing environments on their own, are best suited for applications such as warehouse transportation, hospital delivery, and monitoring. Developments in AI, computer vision, and LiDAR technologies have immensely enhanced their real-time decision-making, collision avoidance, and route planning abilities. Moreover, the growth in e-commerce and just-in-time delivery concepts has augmented the demand for autonomous mobile robots (AMRs) and automated guided vehicles (AGVs) to optimize

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intralogistics and boost operational efficiency.

“Healthcare & medical assistance segment is anticipated to capture the second largest share of the intelligent robotics market in 2030.”

The increasing requirement for automation in the clinical and patient treatment environment influences the adoption of intelligent robotics technologies for healthcare & medical assistance applications. These robots are used for operating support, rehabilitation, patient monitoring, diagnosis, and hospital logistics, which provides better accuracy, stability, and protection. The increase in chronic illnesses, aging populations, and healthcare labour shortages compel hospitals and care facilities to implement robotic solutions that enhance operational efficiency and patient outcomes. Technological innovations in AI, computer vision, and real-time analytics empower robots to execute complicated medical procedures with high precision and less human error. Robots also aid infection control by providing contactless services such as decontamination and medication administration.

“China is expected to hold the largest share of the intelligent robotics market in 2030.”

China emerges as a robust homegrown robotics manufacturing base, supported by a cluster of AI startups and state-of-the-art research facilities. With a rapidly growing aging population and rising labor costs, Chinese manufacturers are migrating in greater numbers to install intelligent robots to enhance productivity and reduce manual labor. Moreover, the growth of smart cities and ubiquitous 5G infrastructure boosts the deployment of mobile and service robots with AI integration. The country’s huge consumer base also fuels the demand for domestic and personal robotics applications, such as cleaning, caretaking, and home automation. Good export facilities, regular R&D spending, and local partners collaborating with international technology corporations further establish it as a leading player in the intelligent robotics industry throughout the region.

Extensive primary interviews were conducted with key industry experts in the intelligent robotics market space to determine and verify the market size for various segments and subsegments gathered through secondary research. The break-up of primary participants for the report has been shown below: The study contains insights from various industry experts, from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type: Tier 1 – 35%, Tier 2 – 45%, and Tier 3 – 20%

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By Designation: C-level Executives – 40%, Directors – 30%, and Others – 30%

By Region: North America – 30%, Europe – 40%, Asia Pacific – 25%, and RoW – 5%

Intuitive Surgical (US), iRobot Corporation (US), ECOVACS (China), KUKA AG (Germany), ABB (Switzerland), NVIDIA Corporation (US), Advanced Micro Devices, Inc. (US), HANSON ROBOTICS LTD. (China), Intel Corporation (US), FANUC CORPORATION (Japan), Qualcomm Technologies, Inc. (US), SoftBank Robotics Group (Japan), Tesla (US), Diligent Robotics Inc. (US), Dusty Robotics (US), Starship Technologies (US), Moley Robotics (UK), Ecorobotix (UK), CMR Surgical Ltd.), NEURA Robotics GmbH (Germany), Agile Robots SE (Germany), PAL Robotics (Spain), Covariant (US), REALTIME ROBOTICS, ANYbotics (Switzerland), Brain Corporation (US), SOTA Robotics (HK) Limited (China), and Vecna Robotics (US) are some key players in the intelligent robotics market.

The study includes an in-depth competitive analysis of these key players in the intelligent robotics market, with their company profiles, recent developments, and key market strategies.

Research Coverage: This research report categorizes the intelligent robotics market based on robot type (industrial robots, service robots, collaborative robots), mobility (fixed, mobility), application (industrial automation, logistics & warehousing, healthcare & medical assistance, agriculture, military & defense, personal & domestic assistance, and other applications), and region (North America, Europe, Asia Pacific and RoW). The report describes the major drivers, restraints, challenges, and opportunities pertaining to the intelligent robotics market and forecasts the same till 2030. Apart from this, the report also consists of leadership mapping and analysis of all the companies included in the intelligent robotics ecosystem.

Key Benefits of Buying the Report The report will help the market leaders/new entrants in this market by providing information on the closest approximations of the revenue numbers for the overall intelligent robotics market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

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The report provides insights on the following pointers:

Analysis of key drivers (Increasing focus on industrial automation, rapid digital transformation and AI integration in critical sectors, rising popularity of robot-assisted surgeries) restraints (complexities associated with interoperability and integration of robotics systems, reluctance to adopt new technologies across SMEs due to financial and operational barriers), and challenges (high technical complexity and commercialization issues) influencing the growth of the intelligent robotics market influencing the growth of the intelligent robotics market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the intelligent robotics market

Market Development: Comprehensive information about lucrative markets – the report analyzes the intelligent robotics market across varied regions

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the intelligent robotics market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players, such as Intuitive Surgical (US), iRobot Corporation (US), ECOVACS (China), KUKA AG (Germany), ABB (Switzerland), in the intelligent robotics market

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12 APPENDIX

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