

# Global Future of Robotics Market Size study, by Technology (Artificial Intelligence, Digital Twin, AR/VR, Cloud Computing), by Industry (Automotive, Smart Cities, Space Exploration, Logistics, Agriculture), and Regional Forecasts 2022-2032

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## Abstracts

The Global Future of Robotics Market is valued at approximately USD 71 billion in 2023 and is projected to grow at an impressive rate of 18.4% during the forecast period 2024-2032. The robotics sector is experiencing rapid evolution, spurred by groundbreaking technological advancements and increasing market demand. This transformation is characterized by the integration of Artificial Intelligence (AI), the Internet of Things (IoT), and advanced machine learning capabilities, which are driving robots to become more intelligent, autonomous, and interconnected.

Collaborative robots, commonly referred to as cobots, are at the forefront of this evolution. Designed to seamlessly integrate into human environments, cobots are revolutionizing industries by automating repetitive and high-risk tasks, allowing human workers to focus on strategic roles. Leveraging technologies like 5G, augmented reality (AR), and advanced sensors, cobots are enhancing safety, adaptability, and efficiency in dynamic production environments. Furthermore, AI-driven advancements such as predictive maintenance and machine learning are empowering robots to optimize workflows and minimize downtime.

The application of robotics is also transforming industries beyond traditional manufacturing. In healthcare, AI-powered robots are assisting in surgeries and patient care, ensuring precision and safety. In agriculture, swarm robotics inspired by social insect behavior is enabling large-scale autonomous operations like crop monitoring and harvesting. Similarly, humanoid robots are marking a new era of human-robot

collaboration, supported by investments from major players such as Tesla and Boston Dynamics.

Asia-Pacific leads in robotics innovation, driven by government support and industrial strategies like China's 'Made in China 2025' and Japan's 'Society 5.0.' Emerging economies such as India are also gaining momentum with a growing number of robotics startups and supportive policies like 'Startup India.' North America and Europe remain significant players, fostering technological advancements and investments.

Major market players included in this report are:

ABB Robotics

Boston Dynamics

Fanuc Corporation

Yaskawa Electric Corporation

KUKA AG

iRobot Corporation

Tesla, Inc.

Agility Robotics

SoftBank Robotics

Hanson Robotics

Omron Adept Technologies

Intuitive Surgical

Siemens AG

DJI Innovations

## Universal Robots

The detailed segments and sub-segments of the market are explained below:

### By Technology

Artificial Intelligence (AI)

Digital Twin

AR/VR

Cloud Computing

### By Industry

Automotive

Smart Cities

Space Exploration

Logistics

Agriculture

### By Region:

#### North America

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

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical Year – 2022

Base Year – 2023

Forecast Period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

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.

Demand-side and supply-side analysis of the market.

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