

Global Service Robotics Market Size Study, by Type, by End-Use, and Regional Forecasts 2022-2032

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Abstracts

The Global Service Robotics Market was valued at approximately USD 40.64 billion in 2023 and is projected to expand at a compound annual growth rate (CAGR) of 15.90% from 2024 to 2032. The widespread adoption of intelligent automation and AI-powered robotic systems is revolutionizing industries, creating enhanced efficiencies, reducing operational costs, and augmenting human capabilities. Service robots, designed to perform complex tasks across various sectors, are reshaping workflows in logistics, healthcare, defense, and field operations.

With rapid advancements in autonomous mobility, sensor technology, and machine learning, service robotics is becoming a cornerstone of Industry 4.0. The proliferation of AI-driven humanoid robots and autonomous mobile robots (AMRs) is empowering organizations to streamline operations, enhance precision, and mitigate labor shortages. In logistics, robotic automation is transforming warehouse management, while in healthcare, surgical robotics and patient-assistive robots are significantly improving outcomes. Additionally, defense applications, such as unmanned ground vehicles (UGVs) and robotic exoskeletons, are strengthening military capabilities. However, high upfront costs, integration complexities, and cybersecurity risks present challenges to widespread adoption.

One of the key drivers of market expansion is the growing demand for automation in critical sectors. The surge in e-commerce has amplified the necessity for robotic fulfillment solutions, while the healthcare sector is increasingly leveraging robotics for precision surgeries, elder care, and rehabilitation. Governments worldwide are investing heavily in robotic research and development, fostering innovation in autonomous systems, swarm robotics, and AI-powered assistance. Moreover, breakthroughs in human-robot collaboration (HRC) and tactile sensing are further enhancing safety and

usability.

Geographically, North America holds the largest market share, propelled by robust technological advancements, high R&D investments, and the presence of leading robotics firms in the United States and Canada. Europe follows closely, driven by increasing adoption of service robots in industrial automation, healthcare, and logistics. Meanwhile, Asia-Pacific (APAC) is poised to experience the fastest growth, fueled by rapid urbanization, expanding industrialization, and increasing investments in AI-driven robotics in countries such as China, Japan, and South Korea.

Major Market Players Included in This Report

iRobot Corporation

SoftBank Robotics

ABB Ltd.

Boston Dynamics

Intuitive Surgical Inc.

KUKA AG

Yaskawa Electric Corporation

Omron Corporation

Honda Motor Co., Ltd.

FANUC Corporation

UBTECH Robotics

Hanson Robotics

Neato Robotics

Nuro Inc.

Cyberdyne Inc.

The Detailed Segments and Sub-Segments of the Market Are Explained Below:

By Type:

Autonomous Mobile Robots

Humanoid Robots

By End-Use:

Logistics

Healthcare

Military & Defense

Field Robots

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

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years Considered for the Study:

Historical Year: 2022

Base Year: 2023

Forecast Period: 2024 to 2032

Key Takeaways:

Market estimates & forecasts spanning a decade (2022-2032)

Annualized revenue analysis and regional-level assessments for each market segment

Comprehensive country-level analysis across major geographic regions

In-depth competitive landscape profiling, detailing key market players and their strategic developments

Expert business recommendations and insights into the competitive structure

Demand-side and supply-side analysis to determine market growth dynamics

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