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Robotics as a Service Market Forecasts to 2034 – Global Analysis By Service Type (Deployment & Integration, Maintenance & Support and Consulting & Training), Robot Type, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Robotics as a Service Market is accounted for $28.4 billion in 2026 and is expected to reach $101.7 billion by 2034 growing at a CAGR of 17.3% during the forecast period. Robotics as a Service (RaaS) offers a flexible approach where businesses can utilize robotic technologies through subscription or usage-based models, avoiding hefty initial expenditures. Combining AI, cloud computing, and automation, RaaS delivers adaptable solutions for sectors including manufacturing, logistics, healthcare, and retail. It helps organizations improve productivity, lower workforce costs, and implement robotic systems faster. Service providers manage software updates, remote maintenance, and performance optimization, ensuring smooth operation. This model democratizes access to advanced automation, allowing even small and medium enterprises to benefit from robotics without the complexities of ownership, setup, or maintenance.

According to the International Federation of Robotics (IFR), global industrial robot installations reached 553,000 units in 2022, with service robotics showing rapid adoption in logistics, healthcare, and agriculture—directly supporting the Robotics-as-a-Service (RaaS) model.

Market Dynamics:

Driver:

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Access to advanced robotics expertise

The availability of specialized robotics expertise drives the growth of RaaS. Many organizations cannot manage complex robotic systems internally due to limited technical knowledge. RaaS providers supply professional services such as installation, maintenance, software updates, troubleshooting, and performance optimization. This allows companies to benefit from expert-managed automation without hiring dedicated specialists, lowering costs and operational challenges. Professional support ensures high robot efficiency, rapid deployment, and reduced downtime. As automation becomes vital for core business processes, RaaS solutions with expert oversight enable seamless operations, empowering companies to adopt robotics confidently while maintaining productivity and operational excellence.

Restraint:

Dependence on internet and connectivity

Robotics as a Service depends extensively on stable internet connections and cloud systems, which makes it sensitive to network issues. Interruptions or slow connectivity can disrupt robot operations, causing delays and decreased productivity. Sectors requiring uninterrupted, real-time automation, such as manufacturing and logistics, may face difficulties due to this reliance. Remote or poorly connected locations might struggle to deploy RaaS efficiently. Concerns about operational reliability can hinder adoption among companies that cannot tolerate downtime. Establishing strong and resilient network infrastructure is essential to mitigate this dependency and support broader acceptance and implementation of RaaS solutions.

Opportunity:

Adoption in healthcare and service industries

Healthcare and service industries present major growth prospects for RaaS. Hospitals, clinics, and eldercare centers increasingly employ robots for patient monitoring, medication transport, surgical support, and sanitation tasks. Similarly, service sectors like retail, hospitality, and logistics are utilizing robots for customer interaction, inventory handling, and deliveries. Subscription-based RaaS models make it easier for these organizations to implement advanced robotics without heavy upfront costs. With rising demand for efficiency, accuracy, and safety, RaaS providers can expand into these sectors, improving operational performance, service quality, and overall automation

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adoption while making robotic technologies accessible to organizations with limited resources.

Threat:

Intense competition among providers

The RaaS market faces a significant threat from intense competition. Many companies now provide comparable subscription-based robotic services, resulting in price reductions and thinner profit margins. Both startups and established robotics firms continuously innovate to stand out, raising operational and promotional expenses. Competitive pressures may compel providers to add features or cut prices, affecting long-term viability. Clients may find it difficult to select the right provider due to similar offerings, which could slow adoption rates. To succeed in this competitive environment, RaaS companies must focus on service differentiation, quality maintenance, and efficient cost management to ensure sustainability.

Covid-19 Impact:

COVID-19 had a major impact on the RaaS market by boosting automation adoption across multiple industries. To comply with social distancing, address labor shortages, and ensure workplace safety, businesses increasingly relied on robots to reduce human contact. Healthcare, retail, logistics, and manufacturing sectors turned to RaaS for tasks such as disinfection, deliveries, inventory control, and remote assistance. The pay-per-use or subscription model enabled rapid deployment without heavy investment amid economic uncertainty. The pandemic emphasized the benefits of contactless, scalable, and flexible robotic services, resulting in increased demand and reinforcing long-term interest in Robotics as a Service across industries.

The deployment & integration segment is expected to be the largest during the forecast period

The deployment & integration segment is expected to account for the largest market share during the forecast period. Organizations emphasize smooth implementation of robotic systems to avoid operational disruptions. This segment includes installing equipment, configuring software, and integrating robots with existing enterprise systems for effective automation. Businesses prefer RaaS providers that offer ready-to-use solutions, simplify deployment, and shorten the time required to achieve benefits. The increasing demand for efficient workflows and faster adoption of automation across

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sectors has made Deployment & Integration the largest and most critical segment, reflecting its importance in ensuring the success and scalability of robotic services within various industries.

The healthcare segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the healthcare segment is predicted to witness the highest growth rate. Hospitals, clinics, and eldercare centers are increasingly adopting robots for patient care, surgeries, medication distribution, and cleaning tasks, improving precision, efficiency, and safety. RaaS models enable these institutions to implement advanced robotics without heavy initial investment, making them accessible to organizations with limited budgets. The growing demand for contactless services, remote healthcare solutions, and flexible automation drives this rapid expansion.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share due to its advanced technological infrastructure and presence of key service providers. The region experiences high automation adoption in sectors such as healthcare, manufacturing, logistics, and retail. Strong investments in R&D, favorable regulations, and early acceptance of robotic solutions drive market growth. Companies leverage subscription-based robotics to improve productivity, reduce labor expenses, and achieve operational flexibility. The synergy of technological maturity, proactive adoption, and supportive business environment makes North America the leading region for RaaS, maintaining a significant edge over other global markets in terms of size and influence.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR due to rapid industrial growth, rising labour costs, and increasing automation adoption. Key countries including China, Japan, South Korea, and India are investing in robotics to enhance productivity in manufacturing, healthcare, logistics, and retail sectors. A growing base of small and medium businesses seeking affordable robotic solutions contributes to this expansion. Supportive government policies, technological innovations, and improved RaaS infrastructure are driving market growth. Asia-Pacific's dynamic economies and escalating demand for flexible, scalable robotic services make it the fastest-growing region in the global RaaS landscape.

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Key players in the market

Some of the key players in Robotics as a Service Market include Aethon, Berkshire Grey, Inc., Cobalt Robotics, CYBERDYNE, Inc., Formic Technologies Inc., Hirebotics, inVia Robotics, Inc., Knightscope, Inc., Locus Robotics, Rapid Robotics, Ready Robotics, Fetch Robotics, Plus One Robotics, Robonnement, Standard Bots, Realtime Robotics, Machina Labs and Carbon Robotics.

Key Developments:

In March 2026, Knightscope, Inc. has completed the acquisition of Event Risk LLC, bringing licensed guarding, executive protection, and risk?mitigation services into its autonomous security platform. Under the Securities Purchase Agreement, consideration includes a $5.0 million closing cash payment, assumption and discharge of approximately $1.1 million of Event Risk indebtedness to Frost Bank.

In September 2025, Aethon and Oracle have partnered to deliver an integrated solution that automates and unifies hospital inventory transport and management, creating an intelligent approach to managing supplies that helps hospitals enhance operational efficiency.

In January 2025, Locus Robotics and The Quality Group (TQG) are proud to announce their partnership to deploy the LocusOne mobile robotics platform at TQG's new 40,000 sqm fulfillment center in Elsdorf, Germany. Full deployment is set to begin in just a few weeks, with plans to scale significantly over the coming months to enable TQG to meet the growing demand for its high-quality, locally produced products.

Service Types Covered:

- Deployment & Integration
- Maintenance & Support
- Consulting & Training

Robot Types Covered:

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- Industrial Robots
- Service Robots
- Autonomous Mobile Robots (AMRs)

Applications Covered:

- Manufacturing
- Logistics & Warehousing
- Healthcare
- Retail
- Agriculture
- Defense & Security

End Users Covered:

- Large Enterprises
- SMEs

Regions Covered:

- North America
  - United States
  - Canada
  - Mexico

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- Europe
  - United Kingdom
  - Germany
  - France
  - Italy
  - Spain
  - Netherlands
  - Belgium
  - Sweden
  - Switzerland
  - Poland
  - Rest of Europe
- Asia Pacific
  - China
  - Japan
  - India
  - South Korea
  - Australia
  - Indonesia
  - Thailand

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- Malaysia
- Singapore
- Vietnam
- Rest of Asia Pacific

South America

- Brazil
- Argentina
- Colombia
- Chile
- Peru
- Rest of South America

Rest of the World (RoW)

- Middle East
  - Saudi Arabia
  - United Arab Emirates
  - Qatar
  - Israel
  - Rest of Middle East
- Africa

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South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

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Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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(2023-2034) ($MN)
Table 20 Global Robotics as a Service Market Outlook, By SMEs (2023-2034) ($MN)
Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) Regions are also represented in the same manner as above.

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