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Industrial Robotics Market Forecasts to 2032 – Global Analysis By Type (Articulated Robots, SCARA Robots, Cartesian/Gantry Robots, Delta Robots, Collaborative Robots [Cobots], Cylindrical Robots, Polar Robots, and Other Types), Component, Payload, Application, End User, and By Geography

https://marketpublishers.com/r/IB80C5317854EN.html
Date: November 2025
Pages: 200
Price: US$ 4,150.00 (Single User License)
ID: IB80C5317854EN

Abstracts

According to Stratistics MRC, the Global Industrial Robotics Market is accounted for $27.1 billion in 2025 and is expected to reach $69.5 billion by 2032, growing at a CAGR of 14.4% during the forecast period. Industrial robotics refers to the use of automated, programmable machines designed to handle manufacturing tasks with precision, speed, and consistency. These robots are widely used in industries such as automotive, electronics, and metalworking for applications like welding, assembly, painting, and material handling. By reducing human error and improving efficiency, industrial robots enhance productivity, ensure workplace safety, and support flexible manufacturing processes in today's highly competitive industrial environment.

According to data from the International Federation of Robotics (IFR), the Industrial Robotics Market recorded over 500,000 new robot installations worldwide in 2023.

Market Dynamics:

Driver:

Growing adoption of Industry 4.0 and smart factory initiatives

The push towards Industry 4.0 is a primary catalyst for the industrial robotics market.

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Companies are aggressively investing in smart factories to enhance operational efficiency, productivity, and flexibility. Robots are central to these automated ecosystems, performing tasks with high precision and enabling seamless data flow. This transition is no longer optional but a strategic necessity for maintaining global competitiveness, thereby fueling significant capital expenditure on robotic systems across key manufacturing sectors like automotive and electronics.

Restraint:

Concerns about job displacement

A significant barrier to adoption is the persistent concern over robots displacing human workers, particularly for low-skilled, repetitive roles. This fear can lead to public and political resistance, potentially resulting in calls for stricter regulations or taxes on automation. Furthermore, companies must navigate the ethical implications and manage workforce transition, which can slow investment. This restraint emphasizes the need for robust reskilling initiatives to align the workforce with new, technologically advanced roles created by automation.

Opportunity:

Integration of AI, machine learning, and IoT

The convergence of robotics with AI, machine learning, and the Internet of Things (IoT) presents a monumental growth opportunity. These technologies transform robots from simple automated machines into intelligent, predictive systems capable of self-optimization and complex decision-making. This enables advanced applications like predictive maintenance and adaptive manufacturing, creating new value propositions. Moreover, this integration allows robots to work safely alongside humans in collaborative environments, significantly expanding their potential use cases across various industries.

Threat:

Cybersecurity risks associated with connected robotics systems

As robots become increasingly connected and integral to smart factories, they present a larger attack surface for cyber threats. A security breach could lead to catastrophic outcomes, including production stoppages, theft of sensitive intellectual property, or

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even physical damage and safety hazards. Such risks can erode trust in automated systems and make companies hesitant to adopt. Consequently, manufacturers must prioritize robust cybersecurity protocols to protect these critical assets and ensure operational continuity.

Covid-19 Impact:

The pandemic initially disrupted the industrial robotics market through supply chain halts and manufacturing shutdowns. However, it ultimately acted as a powerful accelerant for adoption. The crisis exposed the vulnerabilities of dense human-reliant production lines, pushing companies to prioritize automation for building resilience. Furthermore, the need for social distancing and uninterrupted production in a post-pandemic world has cemented the strategic role of robotics in ensuring business continuity, driving a surge in demand across various sectors.

The articulated robots segment is expected to be the largest during the forecast period

The articulated robots segment is expected to account for the largest market share during the forecast period. This dominance is attributed to their unparalleled flexibility, wide range of motion, and ability to handle complex tasks like welding, material handling, and assembly with high precision. Their proven reliability and extensive deployment in heavyweight industries, particularly automotive manufacturing, cement their leading position. Additionally, continuous technical refinements ensure they remain the go-to solution for a vast array of industrial applications.

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

Over the forecast period, the software segment is predicted to witness the highest growth rate. This surge is driven by the escalating need for advanced programming and operational intelligence beyond basic hardware functionality. Sophisticated software enables critical features like simulation, offline programming, and AI-driven analytics, which drastically reduce downtime and enhance productivity. As robots become more interconnected, the demand for software that can manage entire fleets and integrate with factory-wide systems is becoming a paramount investment area.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share. This leadership is anchored by the massive manufacturing footprint of China,

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Japan, and South Korea, which are global hubs for electronics, automotive, and metal production. High labor costs in developed nations and strong governmental support for industrial automation further consolidate the region's dominance. The dense concentration of production facilities creates a continuous, high-volume demand for robotic solutions to maintain competitive advantage.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR. Its growth rate remains the most vigorous due to the ongoing industrial modernization in emerging economies like India and Southeast Asian nations. These countries are aggressively automating to attract foreign investment and boost their manufacturing output. Moreover, the region's relentless push towards technological adoption and increasing investments in smart infrastructure create a fertile ground for accelerated market expansion.

Key players in the market

Some of the key players in Industrial Robotics Market include ABB Ltd., FANUC Corporation, Yaskawa Electric Corporation, KUKA AG, Kawasaki Heavy Industries, Ltd., Mitsubishi Electric Corporation, NACHI-FUJIKOSHI CORP., DENSO WAVE INCORPORATED, OMRON Corporation, Seiko Epson Corporation, St?ubli International AG, Universal Robots A/S, Comau S.p.A., Yamaha Motor Co., Ltd., HD Hyundai Robotics Co., Ltd., Doosan Robotics Co., Ltd., Techman Robot Inc., SIASUN Robot & Automation Co., Ltd., and Panasonic Connect Co., Ltd.

Key Developments:

In September 2025, ABB launched OmniCore EyeMotion, a vision-powered autonomy capability for its OmniCore platform.

In June 2025, Comau unveiled its MyCo family of collaborative robots and new AMR/exoskeleton and welding solutions at Automatica 2025.

In April 2025, OMRON Robotics launched the OL-450S low-profile omni-directional AMR and published other robotics center/PoC news.

In March 2025, Mitsubishi Electric announced new MELFA SCARA robots (RH-10CRH / RH-20CRH) supporting manufacturing DX and expanded robot offerings.

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Types Covered:

- Articulated Robots
- SCARA Robots
- Cartesian (Gantry) Robots
- Delta Robots
- Collaborative Robots (Cobots)
- Cylindrical Robots
- Polar Robots
- Other Types

Components Covered:

- Hardware
- Software
- Services

Payloads Covered:

- Up to 16 Kg
- 16–60 Kg
- 60–225 Kg
- Above 225 Kg

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Applications Covered:

- Material Handling
- Welding & Soldering
- Assembly & Disassembly
- Painting & Coating
- Cutting & Processing
- Palletizing & Packaging
- Inspection & Testing
- Dispensing
- Other Applications

End Users Covered:

- Automotive
- Electrical & Electronics
- Metals & Machinery
- Chemicals, Rubber & Plastics
- Food & Beverages
- Pharmaceuticals & Healthcare
- Aerospace & Defense
- Logistics & Warehousing

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- Other Applications

Regions Covered:

- North America
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  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand

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South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & 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 2024, 2025, 2026, 2028, and 2032
- 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

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- Company Profiling
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  - 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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Contents

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5 GLOBAL INDUSTRIAL ROBOTICS MARKET, BY TYPE

6 GLOBAL INDUSTRIAL ROBOTICS MARKET, BY COMPONENT

7 GLOBAL INDUSTRIAL ROBOTICS MARKET, BY PAYLOAD

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info@marketpublishers.com

8 GLOBAL INDUSTRIAL ROBOTICS MARKET, BY APPLICATION

9 GLOBAL INDUSTRIAL ROBOTICS MARKET, BY END USER

10 GLOBAL INDUSTRIAL ROBOTICS MARKET, BY GEOGRAPHY

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List Of Tables

LIST OF TABLES

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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