

Global Industrial Robotics Market Size study & Forecast, by Type of Robot (Articulated Robots, Linear Robots, Cylindrical Robots, Parallel Robots, SCARA Robots, Others) By End-user Industry (Automotive, Chemical and Manufacturing, Construction, Electrical and Electronics, Food and Beverage, Machinery and Metal, Pharmaceutical, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Industrial Robotics Market is valued approximately at USD 33.12 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 13.40% over the forecast period 2023-2030. Industrial Robotics refers to the use of robots in manufacturing and industrial settings to perform various tasks and processes. These robots are designed to automate and streamline tasks that are typically repetitive, dangerous, or require a high level of precision. Industrial robots can be programmed to carry out a wide range of activities such as assembly, welding, painting, packaging, material handling, and inspection. The Industrial Robotics market is expanding because of factors such as rising demand of collaborative robots and growing industrial automation. As a result, the demand of Industrial Robotics has progressively increased in the international market during the forecast period 2023-2030.

Collaborative robots are designed to be flexible and easily adaptable to various tasks. Unlike traditional industrial robots that often require complex programming and dedicated spaces, cobots can be quickly programmed and redeployed for different applications. This flexibility is appealing to manufacturers seeking agile and responsive automation solutions to meet changing production demands. According to Statista, the

global collaborative robot market accounts USD 590.5 million in 2020 and projected to reach up to USD 1990.2 million by the year 2030. Another important factor driving the Industrial Robotics market is rising industrial automation. Industrial automation, often facilitated by robotics, leads to increased efficiency and productivity in manufacturing processes. Industrial robots can perform highly precise and repetitive tasks with consistent accuracy. This results in improved product quality and reduced defects, leading to higher customer satisfaction. In addition, as per Statista, the global market for industrial automation is projected to reach more than USD 368 billion by the year 2025. Moreover, growing adoption of Industry 4.0 and technological advancements associated to industrial robotics is anticipated to create a lucrative growth opportunity for the market over the forecast period. However, high cost of deployment for SMEs and safety concerns related to industrial robotics systems is going to impede overall market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Industrial Robotics Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 with largest market share owing to the growing industrial automation and rising adoption of Industry 4.0 in the region. Industry 4.0 emphasizes the integration of digital technologies, data exchange, and automation in manufacturing processes. This leads to better efficiency and reduced operational costs. These industrial robots play a crucial role in automating tasks, streamlining production processes and ensuring precision in manufacturing. This automation helps companies meet the demands of Industry 4.0 for increased productivity. The region's dominant performance is anticipated to propel the overall demand of Industrial Robotics. Furthermore, Asia Pacific is expected to grow fastest during the forecast period, owing to factors such as government initiatives towards adoption of robotic process automation in the region. Government organizations could implement regulations or standards that promote the adoption of automation in industries. These regulations can create a favorable environment for businesses to invest in robotic technologies by ensuring compliance and providing clear guidelines for implementation.

Major market player included in this report are:

ABB Ltd

Yaskawa Electric Corporation

Denso Corporation

Fanuc Corporation

KUKA AG

Kawasaki Robotics

Toshiba Corporation

Panasonic Corporation

Staubli Mechatronics Company

Yamaha Robotics

Recent Developments in the Market:

In October 2022, ABB has introduced its smallest industrial robot yet, opening new possibilities for faster, more flexible, and high-quality production of wearable smart devices. The new IRB 1010, with its compact size, class-leading payload, and unrivalled accuracy, allows electronics manufacturers to expand production of gadgets such as smart watches, earbuds, sensors, and health monitors using automation.

Global Industrial Robotics Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Type of Robot, End-user Industry, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type of Robot

Articulated Robots

Linear Robots

Cylindrical Robots

Parallel Robots

SCARA Robots

Others

By End-user Industry

Automotive

Chemical and Manufacturing

Construction

Electrical and Electronics

Food and Beverage

Machinery and Metal

Pharmaceutical

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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