

Global Industrial Robotics Market: Market Segmentation: By Product Type (SCARA Robots, Articulated Robots, Human-Assist Robots, Cartesian Robots); By Application (Handling, Dispensing, Welding and Soldering, Assembling & Disassembling and Others); By End Users (Food and Beverage, Automotive, Healthcare and Pharmaceuticals, Electrical & Electronics and Others) and Region – Analysis of Market Size, Share & Trends for 2014 – 2019 and Forecasts to 2030

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Abstracts

Product Overview

Industrial robot is an automatic robot system used for the purpose of manufacturing in various companies. These are programmable mechanical devices capable of performing repetitive and dangerous tasks eliminating the human workforce ensuring higher accuracy. Robots comprise of machine vision sub-systems that act as their visual sensors that are connected to powerful controllers, used for more precise directions. Industrial robots could be characterized into Gantry Robots, SCARA Robots, Cartesian Robots, Articulated Arm Robots, Human Assist Robots depending upon the type of application and tasks to be performed in different industries. Robotics also provides software programming, recommendations, and training along with information and resources for the companies to design systems, determine low-cost solutions, or provide retrofitting of the used systems of application.

Market Highlights

Global Industrial Robotics Market is expected to project a notable CAGR in 2030.

Global Industrial Robotics Market to surpass USD XXXX million by 2030 from USD XXXX million in 2020 at a CAGR of XX% throughout the forecast period, i.e. 2020-30. Global Industrial Robotics Market is expected to observe growth in the future due to its advanced technologies offering a reduction in costs, increased rate of operations, improved quality, and manufacturing efficiency to the industries. The incorporation of Artificial Intelligence such as the development of self-programming robots and deep learning is expected to accelerate the growth of the industrial robotics market.

Recent Highlights in Global Industrial Robotics Market

In October 2019, ABB (Switzerland) announced investment in Shanghai, China worth USD 150 million for setting up an advanced robotics factory to manufacture robots that would be operational by the end of 2020.

Global Industrial Robotics Market: Segments

Articulated Robots segment to grow with the highest CAGR during 2019-30

Global Industrial Robotics Market is segmented by product type into SCARA Robots, Articulated Robots, Human-Assist Robots, Cartesian Robots. The articulated Robots segment held the largest market share of XX.X% in the year 2018 and is anticipated to dominate the global market throughout the forecast period. Articulated robots hold diverse uses such as assembling and packaging, welding, painting, palletizing, etc., and are not limited to move along a corresponding coordinate axis and have a flexible movement allowing them to perform complex tasks.

Handling segment to grow with the highest CAGR during 2019-30

Global Industrial Robotics Market is segmented by application into Handling, Dispensing, Welding and Soldering, Assembling & Disassembling and Others. The material Handling segment held the largest market share of XX.X% in the year 2019 and is expected to maintain this trend throughout the forecast period.

Automotive segment to grow with the highest CAGR during 2019-30

Global Industrial Robotics market is also segmented by end-users into Food and Beverage, Automotive, Healthcare and Pharmaceuticals, Electrical & Electronics, and Others. Automotive segment held the largest market share of XX.X% in the year 2018 and is anticipated to grow with the highest CAGR throughout the forecast period. Automotive industry is the largest user of industrial robots for manufacturing and assembling components such as chassis, engines, brakes, etc. Healthcare and pharmaceutical segment is also expected to witness growth since robotics applications

enable us to work in sterile environments eliminating the possibility of contamination from environment or humans at the time of component transfer.

Market Dynamics

Drivers

Automation and mounting industrialization

Government bodies and industries are implementing significant schemes for promoting advanced manufacturing technology by introducing automation which has simplified the production process and mostly eliminated the use of human labor in performing various operations, thus, leading to a fall in the costs of production. Rapid industrialization has also fostered the growth of the industrial robotics market.

Dearth of skilled workforce

Shortage of skilled workforce leads to higher labor costs which have encouraged industries to adopt industrial robotics solutions that tend to reduce their labor costs and offer high efficiency, productivity and profits. Tasks that face difficulty to be performed by human workforce favor the adoption of industrial robotics since it simplifies the operation and increases productivity.

Restraints

High Investment Costs

Higher installation and investment costs are incurred for the functioning of industrial robots in various industries which is a key restraining factor for the growth of the industrial robotics market.

Impact of Covid-19 on Industrial Robotics Market

The implementation of lockdown throughout the world has caused disruption of activities among various industries which has hampered the growth of the industrial robotics market. Automotive industry majorly makes use of industrial robots in manufacturing and assembling processes of engines, axles, chassis, etc., pandemic has slowed down the production process considerably reducing consumer demand as a result of which a fall in the investment by vehicle manufacturers is anticipated to affect the industrial robots' market. Shortage of skilled laborers due to the spread of coronavirus has encouraged manufacturers to turn to automation which would reduce the manufacturing costs, but high installation and investment costs are incurred for the functioning of industrial robots in various end-use industries which have adversely impacted the industrial robotics market.

Global Organic Market: Key Players

YASKAWA

Company Overview

Business Strategy

Key Product Offerings

Financial Performance

Key Performance Indicators

Risk Analysis

Recent Development

Regional Presence

SWOT Analysis

FANUC

KUKA

Mitsubishi Electric

ABB (Switzerland)

NACHI-FUJIKOSHI (Japan)

D?rr (Germany)

Omron Adept (US)

DENSO (Japan)

Other Prominent Players

Global Industrial Robotics Market: Regions

Global Industrial Robotics market is segmented based on regional analysis into five major regions. These include North America, Latin America, Europe, APAC, and MENA.

Global Industrial Robotics market in Asia Pacific region held the largest market share of XX.X% in the year 2018 due to rising automation majorly in manufacturing industry. Additionally, rising disposable income and population of the economy have led to an increase in consumer demand and consumption, subsequently led to a rise in the production capacity that could be enhanced with the use of robots in industrial applications.

Global INDUSTRIAL ROBOTICS market is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil, and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey, and Rest of Europe

APAC Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China,

South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia, and Rest of APAC
MENA Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa,
Israel, GCC, South Africa, and Rest of MENA

Global Industrial Robotics market report also contains analysis on:

Industrial Robotics Market Segments:

By Product Type

SCARA Robots

Articulated Robots

Human-Assist Robots

Cartesian Robots

By Application

Handling

Dispensing

Welding and Soldering

Assembling & Disassembling

Others

By End-Users

Food and Beverage

Automotive

Healthcare and Pharmaceuticals

Electrical & Electronics

Others

Industrial Robotics Market Dynamics

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Consultant Recommendation

**The above-given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.

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