

COVID-19 Impact on Industrial Robotics Market by Type (Articulated, SCARA, Parallel, Cartesian Robots), Industry (Automotive; Electrical and Electronics; Food & Beverages; Pharmaceuticals and Cosmetics), and Region – Global Forecast to 2025

<https://marketpublishers.com/r/C185C93FE032EN.html>

Date: April 2020

Pages: 114

Price: US\$ 4,950.00 (Single User License)

ID: C185C93FE032EN

Abstracts

“Post-COVID-19, the traditional industrial robotics market is projected to grow at a CAGR of 10.4% during 2020–2025”

Post-COVID-19, the global traditional industrial robotics market size (including the prices of peripherals, software and system engineering) is expected to grow from USD 44.6 billion in 2020 and is projected to reach USD 73.0 billion by 2025; it is expected to grow at a CAGR of 10.4% during the forecast period. The projection for 2025 is estimated to be down by ~3% as compared to pre-COVID-19 estimation.

A shortage of skilled labor, especially in developed countries, is driving the further use of automation, in the industrial robotics market. Manufacturers are turning to automation to decrease manufacturing costs and to keep their cost advantage in the market. Automation in the electronics industry presents an excellent growth opportunity for traditional industrial robots in the coming years, especially in the APAC region where manufacturers are looking to automate their production processes further. Post-COVID-19, manufacturers are expected to increase in-house manufacturing through automation rather than outsource manufacture to other countries to mitigate global supply chain risks in the future.

“SCARA robots market to grow at highest CAGR during the forecast period”

The market for SCARA robots is projected to grow at the highest CAGR during the

forecast period. SCARA robots are expected to play a vital role specifically in industries such as food & beverages and electronics & electrical by preventing contamination of food products and preventing damage of delicate semiconductor wafers due to human contact, especially for companies looking to minimize their losses during COVID-19.

“Market for metals & machinery industry to grow at significant CAGR from 2020 to 2025.”

Like other industries, the metals & machinery industry has also been hampered by the COVID-19 pandemic. The lack of demand for metals and machines from the construction, automotive, shipbuilding, and many more industries have severely affected the metals & machinery sector. Additionally, metals and machinery companies are planning to operate by utilizing only 50% of their workforce. However, the metals and machinery industry make up the building blocks for other large industries. Companies in the metals and machinery industry make for a large number of essential suppliers. To minimize disruption in production, the traditional industrial robotics market for this industry is expected to grow at the fastest rate post-COVID-19.

“APAC to dominate the global traditional industrial robotics market throughout the forecast period.”

2018 saw a decrease in sales of industrial robots due to countries like China seeing a fall in demand in the automotive sector and the adverse effects of the US-China trade war. Subsequently, the COVID-19 pandemic starting in late 2019 and extending till mostly Q2 or Q3 of 2020 is now adversely affecting the market growth for traditional industrial robots. However, the market in APAC is still expected to grow at the highest CAGR during 2020–2025. Although major countries contributing to the APAC market, such as China, experienced a greater slowdown in growth, their market share remains significant.

On the other hand, 2018 has witnessed the penetration and sales of industrial robots in developing APAC countries such as India and Taiwan. The electrical and electronics industry is an important driver for industrial robots in APAC, owing to the rising demand for electronic products around the world. Components like computer chips, batteries, and displays that are small and sensitive need to be handled with high speed and high precision. APAC also houses a major number of strong global players in the industrial robotics market.

Apart from APAC, the growth of industrial robots in Europe has remained steady over the years. In Europe, industrial robots are not only relevant for large enterprises, but smaller enterprises as well. Germany remains the largest market in Europe for industrial robots. Government initiatives like Industrie 4.0 and the penetration of IoT and AI are expected to boost robot sales in the coming years post-COVID-19. However, the COVID-19 pandemic will negatively affect growth even in developing APAC countries as well as European manufacturers until Q2 or Q3 of 2020.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews have been conducted with key industry experts in the industrial robotics market. The break-up of primary participants for the report has been shown below:

By Company Type: Tier 1 – 40%, Tier 2 – 40%, and Tier 3 – 20%

By Designation: C-level Executives – 40%, Directors – 30%, and Others – 30%

By Region: North America – 40%, APAC – 30%, Europe – 20%, and RoW – 10%

The report profiles key players in the industrial robotics market with their respective market ranking analysis. Prominent players profiled in this report are ABB (Switzerland), YASKAWA (Japan), FANUC (Japan), KUKA (Germany), Mitsubishi Electric (Japan), Kawasaki Heavy Industries (Japan), DENSO (Japan), NACHI-FUJIKOSHI (Japan), EPSON (Japan), Durr (Germany), Universal Robots (Denmark), Omron Adept (US), b+m Surface Systems (Germany), Staubli (Switzerland), Comau (Italy), Yamaha (Japan), Franka Emika (Germany), CMA Robotics (Italy), Rethink Robotics (Germany), Techman Robots (Taiwan), Precise Automation (US), and Siasun (China).

Research Coverage:

This research report categorizes the global industrial robotics market based on type, industry, and geography. The report describes the major drivers, restraints, challenges, and opportunities for the industrial robotics market pertaining to the COVID-19 pandemic. It forecasts the market considering the COVID-19 impact on the industrial robotics ecosystem until 2025. Apart from these, the report also consists of an analysis of all the companies included in the industrial robotics ecosystem. It also identifies the new revenue sources for the players in the industrial robotics ecosystem.

Key Benefits of Buying the Report

The report would help leaders/new entrants in this market in the following ways:

1. The report helps stakeholders understand the pulse of the industrial robotics market and provides them with information on key drivers, restraints, challenges, and opportunities specific to the COVID-19 pandemic.
2. This report would help stakeholders understand their competitors better and gain more insights to improve their position in the business even during the COVID-19 pandemic.
3. The report identifies new revenue sources for players in the industrial robotics ecosystem, post-COVID-19 subsidies.

Contents

1 INTRODUCTION

1.1 COVID-19 HEALTH ASSESSMENT

1.2 COVID-19 ECONOMIC ASSESSMENT

1.2.1 COVID-19 IMPACT ON ECONOMY—SCENARIO ASSESSMENT

2 RESEARCH METHODOLOGY

2.1 RESEARCH ASSUMPTIONS

2.2 PRIMARY DATA

2.2.1 BREAKDOWN OF PRIMARIES

2.3 INCLUSIONS AND EXCLUSIONS

2.4 APPROACH TO ESTIMATE POST-COVID-19 DECLINE IN 2020

2.5 STAKEHOLDERS

3 EXECUTIVE SUMMARY

4 IMPACT ON ECOSYSTEM AND EXTENDED ECOSYSTEM (ADJACENT MARKETS)

4.1 INTRODUCTION

4.1.1 COMPONENT SUPPLIERS

4.1.2 ORIGINAL EQUIPMENT MANUFACTURERS

4.1.3 SYSTEM INTEGRATORS

4.1.4 SOFTWARE PROVIDERS

4.1.5 ACCESSORY PROVIDERS

4.1.6 END USERS

4.2 COVID-19-DRIVEN MARKET DYNAMICS AND FACTOR ANALYSIS

4.2.1 DRIVERS

4.2.1.1 Solicitation of proposals by governments and public–private companies to mitigate adverse impact of COVID-19

4.2.1.2 Anticipated shortage of skilled workforce in manufacturing industries due to ban on migration

4.2.2 RESTRAINTS

4.2.2.1 High installation cost of industrial robots, especially for small and medium-sized enterprises

4.2.3 OPPORTUNITIES

4.2.3.1 Accelerating spread of COVID-19 pandemic prompting several industries to adopt automation technologies

4.2.4 CHALLENGES

4.2.4.1 Difficulties faced by start-up companies to demonstrate their products virtually

5 BUSINESS IMPLICATIONS OF COVID-19 ON INDUSTRIAL ROBOTICS MARKET

5.1 IMPLICATIONS BASED ON VARIOUS TYPES OF ROBOTS (PESSIMISTIC (POST-COVID-19) AND REALISTIC (POST-COVID-19))

5.1.1 ARTICULATED ROBOTS MARKET FORECAST (2020–2025)

5.1.2 SCARA ROBOTS MARKET FORECAST (2020–2025)

5.1.3 PARALLEL/DELTA ROBOTS MARKET FORECAST (2020–2025)

5.1.4 CARTESIAN/GANTRY/LINEAR ROBOTS MARKET FORECAST (2020–2025)

5.1.5 OTHER ROBOTS (CYLINDRICAL, SPHERICAL, SWING ARM) MARKET FORECAST (2020–2025)

6 USE CASES SHOWING IMPACT OF COVID-19 ON MAJOR VERTICALS AND STEPS TAKEN BY CLIENTS TO RESPOND TO CURRENT SCENARIO

6.1 SHIFT IN CLIENTS' REVENUES

6.2 AUTOMOTIVE

6.2.1 FORECAST FROM 2020 TO 2025

6.2.1.1 Pessimistic scenario

6.2.1.2 Realistic scenario

6.2.2 KEY USE CASES

6.2.3 MNM VIEW

6.3 ELECTRICAL AND ELECTRONICS

6.3.1 FORECAST FROM 2020 TO 2025

6.3.1.1 Pessimistic scenario

6.3.1.2 Realistic scenario

6.3.2 KEY USE CASES

6.3.3 MNM VIEW

6.4 CHEMICALS, RUBBER, AND PLASTICS

6.4.1 FORECAST FROM 2020 TO 2025

6.4.1.1 Pessimistic scenario

6.4.1.2 Realistic scenario

6.4.2 KEY USE CASES

6.4.3 MNM VIEW

6.5 METALS AND MACHINERY

6.5.1 FORECAST FROM 2020 TO 2025

6.5.1.1 Pessimistic scenario

6.5.1.2 Realistic scenario

6.5.2 KEY USE CASES

6.5.3 MNM VIEW

6.6 FOOD & BEVERAGES

6.6.1 FORECAST FROM 2020 TO 2025

6.6.1.1 Pessimistic scenario

6.6.1.2 Realistic scenario

6.6.2 KEY USE CASES

6.6.3 MNM VIEW

6.7 PRECISION ENGINEERING AND OPTICS

6.7.1 FORECAST FROM 2020 TO 2025

6.7.1.1 Pessimistic scenario

6.7.1.2 Realistic scenario

6.7.2 KEY USE CASES

6.7.3 MNM VIEW

6.8 PHARMACEUTICALS AND COSMETICS

6.8.1 FORECAST 2020–2025

6.8.1.1 Pessimistic scenario

6.8.1.2 Realistic scenario

6.8.2 KEY USE CASES

6.8.3 MNM VIEW

7 IMPACT OF COVID-19 ON GEOGRAPHIC REGIONS

7.1 GEOGRAPHIC ANALYSIS

7.1.1 FORECAST FROM 2020 TO 2025

7.1.2 MNM VIEW

7.2 NORTH AMERICA

7.2.1 FORECAST FROM 2020 TO 2025

7.2.2 MNM VIEW

7.2.2.1 US

7.2.2.1.1 US to dominate traditional industrial robots market in North America in 2020

7.2.2.2 Canada

7.2.2.2.1 Government initiatives to fuel growth of Canadian traditional industrial robots market

7.2.2.3 Mexico

7.2.2.3.1 Growth of Mexican market to slow down owing to COVID-19

7.3 EUROPE

7.3.1 FORECAST FROM 2020 TO 2025

7.3.2 MNM VIEW

7.3.2.1 Italy

7.3.2.1.1 Most affected European country by COVID-19

7.3.2.2 Germany

7.3.2.2.1 Country to hold largest share of traditional industrial robots market in Europe in 2020 even after outbreak of COVID-19

7.4 APAC

7.4.1 FORECAST FROM 2020 TO 2025

7.4.2 MNM VIEW

7.4.2.1 China

7.4.2.1.1 China might witness decline in purchasing manager index and production index in 2020

7.4.2.2 Japan

7.4.2.2.1 Robot OEMs in Japan design and manufacture their own components to prevent supply chain disruptions

7.5 ROW

7.5.1 FORECAST FROM 2020 TO 2025

7.5.2 MNM VIEW

7.5.2.1 Middle East and Africa

7.5.2.1.1 Market in Middle East and Africa to witness sluggish growth owing to reduced oil prices and rapid spread of COVID-19

7.5.2.2 South America

7.5.2.2.1 Automotive industry is major contributor to growth of traditional industrial robots market in South America

8 COVID-19 FOCUSED PROFILES OF KEY VENDORS

(Company overview, COVID-19 company-specific developments)*

8.1 INDUSTRIAL ROBOTICS ECOSYSTEM

8.1.1 ABB

8.1.2 YASKAWA

8.1.3 FANUC

8.1.4 KUKA

8.1.5 KAWASAKI HEAVY INDUSTRIES

8.1.6 MITSUBISHI ELECTRIC

8.1.7 DENSO CORPORATION

- 8.1.8 NACHI-FUJIKOSHI
- 8.1.9 SEIKO EPSON
- 8.1.10 D?RR
- 8.1.11 OMRON ADEPT
- 8.1.12 B+M SURFACE SYSTEMS
- 8.2 COLLABORATIVE ROBOT ECOSYSTEM
 - 8.2.1 UNIVERSAL ROBOTS
 - 8.2.2 TECHMAN ROBOT
 - 8.2.3 DOOSAN ROBOTICS
 - 8.2.4 AUBO ROBOTICS
 - 8.2.5 PRECISE AUTOMATION
 - 8.2.6 RETHINK ROBOTICS
 - 8.2.7 COMAU
 - 8.2.8 F&P ROBOTICS
 - 8.2.9 MABI ROBOTIC
 - 8.2.10 FRANKA EMIKA
 - 8.2.11 ST?UBLI
 - 8.2.12 BOSCH GROUP
- 8.3 ROBOT END-EFFECTOR ECOSYSTEM
 - 8.3.1 SCHUNK
 - 8.3.2 ROBOTIQ
 - 8.3.3 ZIMMER GROUP
 - 8.3.4 SCHMALZ
 - 8.3.5 DESTACO
 - 8.3.6 T?NKERS
 - 8.3.7 FESTO
 - 8.3.8 ATI INDUSTRIAL AUTOMATION
 - 8.3.9 PIAB AB
 - 8.3.10 SOFT ROBOTICS
 - 8.3.11 BASTIAN SOLUTIONS
 - 8.3.12 EMI
 - 8.3.13 IAI
- 8.4 SERVICE ROBOTICS ECOSYSTEM
 - 8.4.1 IROBOT
 - 8.4.2 DELAVAL
 - 8.4.3 DAIFUKU
 - 8.4.4 DJI
 - 8.4.5 KONGSBERG MARITIME
 - 8.4.6 SOFTBANK ROBOTICS GROUP

8.4.7 NORTHROP GRUMMAN

8.4.8 NEATO ROBOTICS

8.4.9 ECA GROUP

8.4.10 LELY

8.4.11 STARSHIP TECHNOLOGIES

8.4.12 GENERAL ELECTRIC

8.4.13 PARROT DRONES SAS

8.5 MEDICAL ROBOTS ECOSYSTEM

8.5.1 INTUITIVE SURGICAL

8.5.2 MAZOR ROBOTICS

8.5.3 STRYKER

8.5.4 ACCURAY

8.5.5 OMNICELL

8.5.6 HOCOMA

8.5.7 HANSEN MEDICAL (A WHOLLY OWNED SUBSIDIARY OF AURIS SURGICAL ROBOTICS)

8.5.8 ARXIUM

8.5.9 EKSO BIONICS

8.5.10 KIRBY LESTER

8.5.11 CYBERDYNE

*Company overview, COVID-19 company-specific developments might not be captured in case of unlisted companies.

9 APPENDIX

9.1 INSIGHTS OF INDUSTRY EXPERTS

9.2 DISCUSSION GUIDE

9.3 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

9.4 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

TABLE 1 SCENARIOS IN TERMS OF RECOVERY OF GLOBAL ECONOMY

TABLE 2 PMI-BASED CALCULATIONS TO OBTAIN DECLINING MARKET SIZE AND REDUCING PERCENTAGE FOR 2020

TABLE 3 ARTICULATED ROBOTS: SUMMARY TABLE

TABLE 4 ARTICULATED ROBOTS MARKET, BY PRE- AND POST-COVID-19 SCENARIO, 2018–2025 (USD BILLION)

TABLE 5 SCARA ROBOTS: SUMMARY TABLE

TABLE 6 SCARA ROBOTS MARKET, BY PRE- AND POST-COVID-19 SCENARIO, 2018–2025 (USD BILLION)

TABLE 7 PARALLEL ROBOTS: SUMMARY TABLE

TABLE 8 PARALLEL ROBOTS MARKET, BY PRE- AND POST-COVID-19 SCENARIO, 2018–2025 (USD BILLION)

TABLE 9 CARTESIAN ROBOTS: SUMMARY TABLE

TABLE 10 CARTESIAN ROBOTS MARKET, BY PRE- AND POST-COVID-19 SCENARIO, 2018–2025 (USD BILLION)

TABLE 11 OTHER ROBOTS MARKET, BY PRE- AND POST-COVID-19 SCENARIO, 2018–2025 (USD MILLION))

TABLE 12 GLOBAL TRADITIONAL INDUSTRIAL ROBOTS MARKET, BY PRE- AND POST-COVID-19 SCENARIO, 2018–2025 (USD BILLION)

TABLE 13 TRADITIONAL INDUSTRIAL ROBOTS MARKET IN NORTH AMERICA, BY PRE- AND POST-COVID-19 SCENARIO, 2018–2025 (USD BILLION)

TABLE 14 TRADITIONAL INDUSTRIAL ROBOTS MARKET IN EUROPE, BY PRE- AND POST-COVID-19 SCENARIO, 2018–2025 (USD BILLION)

TABLE 15 TRADITIONAL INDUSTRIAL ROBOTS MARKET IN APAC, BY PRE- AND POST-COVID-19 SCENARIO, 2018–2025 (USD BILLION)

TABLE 16 TRADITIONAL INDUSTRIAL ROBOTS MARKET IN ROW, BY PRE- AND POST-COVID-19 SCENARIO, 2018–2025 (USD MILLION)

List Of Figures

LIST OF FIGURES

- FIGURE 1 COVID-19: THE GLOBAL PROPAGATION
- FIGURE 2 COVID-19 PROPAGATION: MAXIMUM COVID-19 CASES REGISTERED IN US
- FIGURE 3 CUMULATIVE NUMBER OF CONFIRMED COVID-19 CASES IN KEY COUNTRIES
- FIGURE 4 REVISED GDP FORECASTS FOR SELECT G20 COUNTRIES IN 2020
- FIGURE 5 CRITERIA IMPACTING GLOBAL ECONOMY
- FIGURE 6 TRADITIONAL INDUSTRIAL ROBOTS MARKET TO DECLINE CONSIDERABLY DURING 2019–2020 OWING TO COVID-19 PANDEMIC
- FIGURE 7 ARTICULATED ROBOTS TO ACCOUNT FOR LARGEST MARKET SHARE IN 2020
- FIGURE 8 AUTOMOTIVE INDUSTRY TO HOLD LARGEST SHARE OF TRADITIONAL INDUSTRIAL ROBOTS MARKET IN 2020
- FIGURE 9 APAC TO HOLD LARGEST SHARE OF TRADITIONAL INDUSTRIAL ROBOTS MARKET IN 2020
- FIGURE 10 ROBOTICS ECOSYSTEM
- FIGURE 11 COVID-19-DRIVEN MARKET DYNAMICS
- FIGURE 12 REPRESENTATION OF 6-AXIS ARTICULATED ROBOTS
- FIGURE 13 PRE- AND POST-COVID-19 ESTIMATES FOR ARTICULATED ROBOTS MARKET
- FIGURE 14 REPRESENTATION OF 4-AXIS SCARA ROBOT
- FIGURE 15 PRE- AND POST-COVID-19 ESTIMATES FOR SCARA ROBOTS MARKET
- FIGURE 16 REPRESENTATION OF PARALLEL ROBOT
- FIGURE 17 PRE- AND POST-COVID-19 ESTIMATES FOR PARALLEL ROBOTS MARKET
- FIGURE 18 REPRESENTATION OF CARTESIAN ROBOT
- FIGURE 19 PRE- AND POST-COVID-19 ESTIMATES FOR CARTESIAN ROBOTS MARKET
- FIGURE 20 PRE- AND POST- COVID-19 ESTIMATES FOR OTHER ROBOTS MARKET
- FIGURE 21 SHIFT IN CLIENTS' REVENUES: WITH EXTENDED LENS ON AUTOMOTIVE, ELECTRICAL AND ELECTRONICS, PHARMACEUTICALS AND COSMETICS, AND FOOD & BEVERAGES INDUSTRIES

FIGURE 22 IMPACT OF COVID-19 ON TRADITIONAL INDUSTRIAL ROBOTS MARKET FOR AUTOMOTIVE INDUSTRY

FIGURE 23 IMPACT OF COVID-19 ON TRADITIONAL INDUSTRIAL ROBOTS MARKET FOR ELECTRICAL AND ELECTRONICS INDUSTRY

FIGURE 24 IMPACT OF COVID-19 ON TRADITIONAL INDUSTRIAL ROBOTS MARKET FOR CHEMICALS, RUBBER, AND PLASTICS INDUSTRY

FIGURE 25 IMPACT OF COVID-19 ON TRADITIONAL INDUSTRIAL ROBOTS MARKET

FOR METALS AND MACHINERY INDUSTRY

FIGURE 26 IMPACT OF COVID-19 ON TRADITIONAL INDUSTRIAL ROBOTS MARKET

FOR FOOD & BEVERAGES INDUSTRY

FIGURE 27 IMPACT OF COVID-19 ON TRADITIONAL INDUSTRIAL ROBOTS MARKET

FOR PRECISION ENGINEERING AND OPTICS INDUSTRY

FIGURE 28 IMPACT OF COVID-19 ON TRADITIONAL INDUSTRIAL ROBOTS MARKET

FOR PHARMACEUTICALS AND COSMETICS INDUSTRY

FIGURE 29 IMPACT OF COVID-19 ON GLOBAL TRADITIONAL INDUSTRIAL ROBOTS MARKET

FIGURE 30 IMPACT OF COVID-19 ON TRADITIONAL INDUSTRIAL ROBOTS MARKET

IN NORTH AMERICA

FIGURE 31 IMPACT OF COVID-19 ON TRADITIONAL INDUSTRIAL ROBOTS MARKET IN EUROPE

FIGURE 32 IMPACT OF COVID-19 ON TRADITIONAL INDUSTRIAL ROBOTS MARKET IN APAC

FIGURE 33 IMPACT OF COVID-19 ON TRADITIONAL INDUSTRIAL ROBOTS MARKET IN ROW

FIGURE 34 IMPACT OF COVID-19 ON KEY PLAYERS IN INDUSTRIAL ROBOTICS ECOSYSTEM

FIGURE 35 IMPACT OF COVID-19 ON KEY PLAYERS IN COLLABORATIVE ROBOT ECOSYSTEM

FIGURE 36 IMPACT OF COVID-19 ON KEY PLAYERS IN ROBOT END-EFFECTOR ECOSYSTEM

FIGURE 37 IMPACT OF COVID-19 ON KEY PLAYERS IN SERVICE ROBOTICS ECOSYSTEM

FIGURE 38 IMPACT OF COVID-19 ON KEY PLAYERS IN MEDICAL ROBOTS ECOSYSTEM

I would like to order

Product name: COVID-19 Impact on Industrial Robotics Market by Type (Articulated, SCARA, Parallel, Cartesian Robots), Industry (Automotive; Electrical and Electronics; Food & Beverages; Pharmaceuticals and Cosmetics), and Region – Global Forecast to 2025

Product link: <https://marketpublishers.com/r/C185C93FE032EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/C185C93FE032EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970