

# Industrial Robotics Market by Type (Traditional, Collaborative), Component, Payload (Upto 16.00 Kg, 16.01-60.00 Kg, 60.01-225.00 Kg, More than 225 Kg), Application (Handling, Dispensing, Processing), End Use Industry and Region - Global Forecast to 2028

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### **Abstracts**

The Industrial Robotics market is valued at USD 17.0 billion in 2023 and is projected to reach USD 32.5 billion by 2028, growing at a CAGR of 13.8% from 2023 to 2028. Shortage of skilled labor in manufacturing industries is one of the major driving factors in the market.

"Market for traditional robots to hold largest share during the forecast period."

Traditional industrial robots are developed to offer speed and accuracy. They are generally built to carry high payloads and are programmed to perform a single task continuously. The robots are well suited for high-volume production and have been fundamental in scaling up productivity in major industries such as metals & machinery and automotive. The robots are dangerous in close proximity to humans and are generally deployed in a cage or an enclosure.

"Market for Upto 16.00 Kg segment is expected to hold the largest share during the forecast period"

Industries across various sectors are currently adopting robots with a payload of up to 16 kg due to the significant advantages such as high accuracy, flexibility, and cost-effectiveness. In manufacturing, these robots are being widely implemented to enhance productivity, efficiency, and precision. With the growth in demand for machines in sectors such as agriculture, packaging, and manufacturing, the market for industrial



robots with payload carrying capacity of up to 16.00 kg for the metals & machinery industry is expected to record the highest CAGR between 2023 and 2028. This category mainly includes articulated, parallel, SCARA, and collaborative robots.

"Market for Automotive end use industry segment to witness largest share during the forecast period"

Welding has been one of the first and most popular applications of industrial robots in the automotive industry. Spot welding is extensively used to weld sheet metals for four-wheelers. Spot welding robots have a larger size and reach than arc welding robots, which are used for welding smaller parts, such as brackets and mounts, and producing two-wheelers. Due to the speed and repeatability of automated welding, manual welding is seldom used in assembly line manufacturing. Spray painting automation is another widespread application in assembly lines, majorly used to protect workers from toxic fumes. Robots provide consistency in paint application and minimize wastage. They are also used for machine tending and material removal applications..

"Europe is expected to have second-largest market size during the forecast period"

The growth of the automotive, pharmaceuticals, glass, and food industries in Europe will lead to the growth of the industrial robotics market in the region. Recently, Europe signed free trade agreements with South Korea and Singapore. This increase in industrialization is expected to boost the demand for industrial robots. ABB (Switzerland), KUKA (Germany), and Universal Robots (Denmark) are among the major players in the industrial robotics market in the region. The number of industrial robots in Europe is increasing, with a 6% year-on-year growth in 2022.

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 space. The break-up of primary participants for the report has been shown below:

By Company Type: Tier 1 – 35%, Tier 2 – 40%, and Tier 3 – 25%

By Designation: C-level Executives – 45%, Directors –35%, and Others – 20%

By Region: North America –30%, Asia Pacific– 40%, 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 include — ABB (Switzerland), FANUC CORPORATION (Japan), Yaskawa Electric Corporation (Japan), KUKA AG (Germany), and Mitsubishi Electric (Japan). Apart from these Kawasaki Heavy Industries (Japan), DENSO Corporation (Japan), Nachi-Fujikoshi (Japan), Durr (Germany), and SEIKO EPSON (Japan).are among a few emerging companies in the industrial robotics market.

### Report Coverage

The report defines, describes, and forecasts the industrial robotics market based on type, component, payload, application, end use industry and region. It provides detailed information regarding drivers, restraint, opportunities, and challenges influencing the growth of industrial robotics market. It also analyzes competitive developments such as product launches, acquisition, collaboration, partnership, and action carries out by the key players to grow the market.

### Reasons to Buy This Report

The report will help the market leaders/new entrants in the market with information on the closest approximations of the revenue for the overall industrial robotics market and the subsegments. The report will help stakeholders understand the competitive landscape and gain more insight to position their business better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provide them information on key drivers, restraint, opportunities, and challenge.

The report will provide insights to following pointers:

Analysis of key drivers (growing demand for collaborative robots across industries), opportunities (Emergence of Industry 5,0) and challenges (Safety concerns related to industrial robotics systems) of the industrial robotics market.

Product development /Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the industrial robotics market.

Market Development: Comprehensive information about lucrative markets, the report analyses the industrial robotics market across various regions.



Market Diversification: Exhaustive information about new product & services, untapping geographies, recent developments, and investments in the industrial robotics market.

Competitive Assessment: In depth assessment of market share, growth strategies, and services, offering of leading players like ABB (Switzerland), FANUC CORPORATION (Japan), Yaskawa Electric Corporation (Japan), KUKA AG (Germany), and Mitsubishi Electric (Japan). among others in industrial robotics market.



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TABLE 376 KAWASAKI HEAVY INDUSTRIES, LTD.:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

14.1.7 DENSO CORPORATION

TABLE 377 DENSO CORPORATION: BUSINESS OVERVIEW

FIGURE 90 DENSO CORPORATION: COMPANY SNAPSHOT

TABLE 378 DENSO CORPORATION: PRODUCTS/SOLUTIONS/SERVICES

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14.1.8 NACHI-FUJIKOSHI CORP.

TABLE 37 NACHI-FUJIKOSHI CORP.: BUSINESS OVERVIEW

FIGURE 91 NACHI-FUJIKOSHI CORP.: COMPANY SNAPSHOT

TABLE 380 NACHI-FUJIKOSHI CORP.: PRODUCTS/SOLUTIONS/SERVICES

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14.1. SEIKO EPSON CORPORATION

TABLE 381 SEIKO EPSON: BUSINESS OVERVIEW

FIGURE 92 SEIKO EPSON: COMPANY SNAPSHOT

TABLE 382 SEIKO EPSON: PRODUCTS/SOLUTIONS/SERVICES OFFERED

14.1.10 D?RR GROUP

TABLE 383 D?RR GROUP: BUSINESS OVERVIEW

FIGURE 93 D?RR GROUP: COMPANY SNAPSHOT

TABLE 384 D?RR GROUP: PRODUCTS/SOLUTIONS/SERVICES OFFERED

\*Details on Business overview, Products/Solutions/Services offered, Recent

Developments, MNM view might not be captured in case of unlisted companies.

14.2 OTHER PLAYERS

14.2.1 YAMAHA MOTOR CO., LTD.

14.2.2 ESTUN AUTOMATION CO., LTD.

14.2.3 SHIBAURA MACHINE CO. LTD.

14.2.4 DOVER CORPORATION

14.2.5 AUROTEK CORPORATION

14.2.6 HIRATA CORPORATION

14.2.7 RETHINK ROBOTICS

14.2.8 FRANKA EMIKA

14.2. TECHMAN ROBOT

14.2.10 BOSCH REXROTH AG

14.2.11 UNIVERSAL ROBOTS (TERADYNE)

**14.2.12 OMRON ADEPT** 

14.2.13 ST?UBLI

14.2.14 COMAU

14.2.15 B+M SURFACE SYSTEMS

14.2.16 ICR SERVICES



- 14.2.17 IRS ROBOTICS
- 14.2.18 HD HYUNDAI ROBOTICS
- 14.2.1 SIASUN ROBOT AUTOMATION CO., LTD
- 14.2.20 ROBOTWORX

### **15 APPENDIX**

- 15.1 DISCUSSION GUIDE
- 15.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL
- 15.3 CUSTOMIZATION OPTIONS
- 15.4 RELATED REPORTS
- 15.5 AUTHOR DETAILS



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