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Collaborative Robots Market Forecast to 2030 - Global Analysis by Payload (Up to 5 Kg, 5-10 Kg, and Above 10 Kg), Application (Assembly, Material Handling, Pick & Place, Quality Testing, Packaging, Machine Tending, Welding, and Others), Type (Robotic Arm, Grippers, Welding Guns, and Others), and End-User Industry (Automotive, Metal & Machinery, Electronics, Pharmaceuticals, Food & Beverages, Logistics, and Others)

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Report description:

The collaborative robots market size is expected to grow from US$ 1.15 billion in 2022 to US$ 8.81 billion by 2030; it is estimated to record a CAGR of 28.9% from 2022 to 2030.

The global manufacturing industry is rapidly expanding as many countries are establishing manufacturing plants in their localities. This expansion in the manufacturing industry is expected to embrace technological advancements in order to enhance the plant's productivity and gain a competitive advantage. The expansion in the manufacturing industry is further driven by economic growth worldwide. Also, the technological revolution in the factories has been encouraging the manufacturing industries to further invest in emerging technologies such as automation in order to enhance their productivity and production cycle. Thus, the rapid expansion in the manufacturing industry is expected to drive the demand for collaborative robots globally and driving the collaborative robots market growth during the forecast period.

-The COVID-19 pandemic resulted in disruptions in multiple supply chains across various industries, eventually leading to revenue loss for many large and small enterprises due to lockdowns imposed by governments of various countries to curb the spread of

SARS-CoV-2. These disruptions in the supply chain temporarily discontinued the manufacturing processes of automation solutions.

- The impact of the COVID-19 pandemic on various industries, such as aerospace, automotive, and manufacturing, was severe. Due to the temporary discontinuation of operations across various production facilities, the procurement of automation solutions was impacted.
- For instance, the pandemic adversely impacted the business of Siemens as customers canceled orders or postponed investments, which exposed the company to increased default risk, and its supply chain experienced difficulties in certain areas.

Europe has the largest collaborative robots market share in 2022. The region comprises several major manufacturing industries such as aerospace, machinery & equipment, automotive, shipbuilding, and military vehicles. The automotive industry of the EU is considered to be a crucial industry as it significantly contributes to the country's GDP (6.8%) as well as provides employment to millions of people in the region. EU is the leading producer of motor vehicles, and several premium automotive manufacturers are based in the region. Furthermore, the automotive sector of the region represents the largest private investor in R&D as well as it receives support from the government such as funds for R&D. The vehicle manufacturing industry is a strategic industry, which produces ~19.2 million cars, vans, buses, and trucks per year. Moreover, ~300 vehicle assembly and manufacturing facilities are located in approximately 26 countries across the region. Thus, a strong manufacturing industry contributes to the demand for collaborative robots and fuels the collaborative robots market growth in Europe.

Further, VALERI (Validation of Advanced, Collaborative Robots for Industrial Applications) is a project coordinated by the Fraunhofer Institute for Factory Operation and Automation (IFF) in Germany along with industrial partners, such as FACC, IDPSA, Airbus DS, and KUKA Laboratories GmbH, as well as research partners-PRODINTEC and Profactor GmbH. The rise in such projects is supporting the adoption of collaborative robots and fueling its market growth.

Kuka AG, Yaskawa America Inc, Aubo (Beijing) Robotics Technology Co Ltd, Doosan Robotics Inc, Fanuc Corp, ABB Ltd, Rethink Robotics GmbH, Universal Robots AS, Techman Robot Inc, and Kawasaki Heavy Industries Ltd are among the key collaborative robots market players profiled in this market study. Several other essential collaborative robots market players were analyzed for a holistic view of the market and its ecosystem.

The overall collaborative robots market size has been derived using both primary and secondary sources. To begin the collaborative robots market research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the collaborative robots market. The process also serves the purpose of obtaining an overview and market forecast of the collaborative robots market growth with respect to all market segments. Also, multiple primary interviews have been conducted with industry participants and commentators to validate the data and gain more analytical insights about the topic. Participants of this process include industry experts such as VPs, business development managers, market intelligence managers, and national sales managers-along with external consultants such as valuation experts, research analysts, and key opinion leaders-specializing in the collaborative robots market.

Table of Contents:

Please contact us for the full table of contents, as well as for any sample pages and content specific questions.

Collaborative Robots Market Forecast to 2030 - Global Analysis by Payload (Up to 5 Kg, 5-10 Kg, and Above 10 Kg), Application (Assembly, Material Handling, Pick & Place, Quality Testing, Packaging, Machine Tending, Welding, and Others), Type (Robotic Arm, Grippers, Welding Guns, and Others), and End-User Industry (Automotive, Metal & Machinery, Electronics, Pharmaceuticals, Food & Beverages, Logistics, and Others)

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