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Global Aerospace Robotics Market 2023-2029

https://marketpublishers.com/r/G2C781162436EN.html
Date: March 2023
Pages: 71
Price: US$ 3,450.00 (Single User License)
ID: G2C781162436EN

Abstracts

The use of robotics in the aerospace industry has led to increased efficiency, accuracy, and safety in manufacturing and maintenance processes. The global aerospace robotics market size is projected to grow by USD 3.7 billion from 2023 to 2029, registering a CAGR of 11.86 percent, according to the latest market data. In the aerospace industry, robots are used for a variety of applications, such as welding, painting, drilling, riveting, and inspection. They are also used in the assembly of large aircraft components such as wings, fuselages, and engines. Aerospace robots are often used to perform tasks that are too dangerous, difficult, or time-consuming for humans to perform.In the aerospace industry, robots are used for a variety of applications, such as welding, painting, drilling, riveting, and inspection. They are also used in the assembly of large aircraft components such as wings, fuselages, and engines. Aerospace robots are often used to perform tasks that are too dangerous, difficult, or time-consuming for humans to perform.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global aerospace robotics market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the type, component, payload model, application, and region. The global market for aerospace robotics can be segmented by type: traditional robots, collaborative robots. The traditional robots segment held the largest revenue share in 2022. Aerospace robotics market is further segmented by component: controller, sensor, drive, end effector, others. Among these, the end effector segment was accounted for the highest revenue generator in 2022. Based on payload model, the

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aerospace robotics market is segmented into: up to 16.00 kg, 16.01–60.00 kg, 60.01–225.00 kg, more than 225.00 kg. The up to 16.00 kg segment captured the largest share of the market in 2022. On the basis of application, the aerospace robotics market also can be divided into: drilling & fastening, non-destructive testing & inspection, welding & soldering, sealing & dispensing, handling, others. According to the research, the handling segment had the largest share in the global aerospace robotics market. Aerospace robotics market by region is categorized into: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America.

The traditional robots market is further segmented into articulated, parallel, linear/cartesian, SCARA, others. Globally, the articulated segment made up the largest share of the aerospace robotics market. Furthermore, the end effector market has been categorized into welding guns, grippers, robotic screwdrivers, sanding & deburring tool, specialty & hybrid end effectors, others. The grippers segment was the largest contributor to the global aerospace robotics market in 2022.

Market Segmentation
By type: traditional robots, collaborative robots
By component: controller, sensor, drive, end effector, others
By payload model: up to 16.00 kg, 16.01–60.00 kg, 60.01–225.00 kg, more than 225.00 kg
By application: drilling & fastening, non-destructive testing & inspection, welding & soldering, sealing & dispensing, handling, others
By region: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America

The report has also analysed the competitive landscape of the global aerospace robotics market with some of the key players being FANUC Corporation, Kuka AG, ABB Ltd., Kawasaki Heavy Industries Ltd., Yaskawa Electric Corporation, Oliver Crispin Robotics Limited, Gudel AG, Electroimpact Inc., Universal Robots A/S, St?ubli Group, Comau SpA, Festo Corporation, Boston Dynamics, Inc., among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.
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Scope of the Report
To analyze and forecast the market size of the global aerospace robotics market.
To classify and forecast the global aerospace robotics market based on type, component, payload model, application, region.

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To identify drivers and challenges for the global aerospace robotics market.
To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global aerospace robotics market.
To identify and analyze the profile of leading players operating in the global aerospace robotics market.

Why Choose This Report
Gain a reliable outlook of the global aerospace robotics market forecasts from 2023 to 2029 across scenarios.
Identify growth segments for investment.
Stay ahead of competitors through company profiles and market data.
The market estimate for ease of analysis across scenarios in Excel format.
Strategy consulting and research support for three months.
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More than 225.00 kg

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Welding & soldering
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Handling
Others

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Latin America

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Yaskawa Electric Corporation
Oliver Crispin Robotics Limited
Gudel AG
Electroimpact Inc.
Universal Robots A/S
St?ubli Group
Comau SpA
Festo Corporation
Boston Dynamics, Inc.

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