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Global Data Center Robotics Market Size study & Forecast, by Component (Hardware, Software, Service), by Enterprise Size (SMEs, Large Enterprises), by Industry Vertical (BFSI, Healthcare, Education, IT and Telecom, Real Estate, Government, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Data Center Robotics Market is valued at approximately USD 11.04 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 20% during the forecast period 2023-2030. Data Center Robotics refers to the application of robotics technology in data center environments to automate and optimize various tasks related to the management, operation, and maintenance of data centers. These data centers facilities consist of computer systems, servers, networking equipment, and storage systems, playing a crucial role in storing, processing, and managing digital data for organizations. The Data Center Robotics Market is expanding because of factors such as the rising number of data centres and the increasing adoption of industrial robotics. As a result, the demand for Data Center Robotics has progressively increased in the international market during the forecast period 2023-2030.

Robotics can enhance the efficiency of data center operations by optimizing resource usage. Automation technologies can dynamically adjust cooling systems, manage power consumption, and ensure that resources are utilized effectively across a growing number of data centers. According to Statista, in 2023, the United States led globally with the highest number of reported data centers, totalling 5,375, followed by Germany with 522 data centers, and the United Kingdom with 517 data centers. Another important factor that drives the Data Center Robotics Market is the increasing adoption of industrial robotics. Industrial robots often utilize advanced sensors, actuators, and

precision components. The adoption of such hardware in industrial settings drives advancements in the hardware components used in Data Center Robotics. This could result in more reliable and efficient robotic systems for tasks such as server maintenance, cable management, and equipment handling. In addition, as per Statista, the Industrial Robotics Market is projected to reach approx. USD 9.31 billion by the year-end of 2024. Moreover, the increasing adoption of robotics artificial intelligence and machine learning and the rising adoption of data center automation are anticipated to create lucrative growth opportunities for the market over the forecast period. However, security privacy concerns of data center robotics and the high cost of Data Center Robotics are going to impede overall market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Data Center Robotics Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the increasing number of data centers in the region. The scalability of robotics solutions becomes crucial as the number of data centers grows. Automation technologies need to scale efficiently to accommodate the expanding infrastructure, and organizations invest in scalable robotic systems to meet these demands. The region’s dominant performance is anticipated to propel the overall demand for Data Center Robotics. Furthermore, Asia Pacific is expected to grow fastest over the forecast period, owing to factors such as rapid digital transition, with rising usage of big data, cloud, artificial intelligence, and the Internet of Things (IoT) in the region.

Major market player included in this report are:

Hewlett Packard Enterprise Development LP

Microsoft Corporation

Huawei Technologies Co., Ltd

ConnectWise, LLC

BMC Software, Inc

Siemens AG

ABB Ltd

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Rockwell Automation Inc

Cisco Systems, Inc

NTT Communications Corporation

Recent Developments in the Market:

In September 2023, ABB Robotics is enhancing its educational portfolio by introducing the IRB 1090, an industrial education robot endorsed by the esteemed education institute STEM.org. Specifically crafted to elevate students' skill sets, the 1090 equips them with a valuable edge in the competitive job market. This latest addition underscores ABB's commitment to advancing education, complementing an array of industrial robots, educational packages, cutting-edge controllers, and top-tier programming and simulation software within its comprehensive education suite.

Global Data Center Robotics Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Component, Enterprise Size, Industry Vertical, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst’s working hours) with purchase. Addition or alteration to country, regional & segment scope*

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The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Component

Hardware

Software

Service

By Enterprise Size

SMEs

Large Enterprises

By Industry Vertical

BFSI

Healthcare

Education

IT and Telecom

Real Estate

Government

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Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

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Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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