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Robot Software Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global robot software market size reached US$ 14.6 Billion in 2022. Looking forward, IMARC Group expects the market to reach US$ 43.5 Billion by 2028, exhibiting a growth rate (CAGR) of 18.6% during 2023-2028.

Robot software provides a set of commands that enable mechanical devices or electronic systems to perform autonomous tasks. It includes security patrols, visitor tours and custom programs and drag-and-drop interfaces for setting up delivery routes. It can also create applications with command-and-control and tasking features and control graphical user interface (GUI) for teleoperated and mobile robots, which are utilized in different factories. Several companies are currently offering integrated robot software that combines control, safety, and motion into a single software architecture and development for enhancing productivity.

Robot Software Market Trends:
The Fourth Industrial Revolution (Industry 4.0) emergence, along with the rising trend of precision manufacturing, is catalyzing the need for industrial robots to modify manufacturing facilities into smart, connected factories. This represents one of the major factors impelling the market growth. Moreover, due to the growing demand for packaged food items, manufacturers in the food and beverage (F&B) industry are relying on robotics technology to automate the production process and mass-produce products with high precision and yields. This is creating a favorable outlook for the market. Apart from this, companies operating in the chemical sector are shifting towards robot software to refrain employees from performing hazardous tasks and improving workers' safety. Furthermore, robotic technologies are employed in the healthcare industry on account of the rising need for surgical robotics and lab and pharmacy

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automation. As e-commerce and shipping companies are also focusing on automating a significant part of their operations due to worker shortages and increasing competition between enterprises, the demand for robot software is growing across the globe. Besides this, market players worldwide are developing artificial intelligence (AI) driven robots using robotic operating systems (ROS) and frameworks, which is projected to augment the overall sales.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each sub-segment of the global robot software market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on software type, robot type, deployment mode, enterprise size and end use industry.

Breakup by Software Type:

Recognition Software
Simulation Software
Predictive Maintenance Software
Data Management and Analysis Software
Communication Management Software

Breakup by Robot Type:

Industrial Robots
Service Robots

Breakup by Deployment Mode:

On-premises
Cloud-based

Breakup by Enterprise Size:

Small and Medium-sized Enterprises
Large Enterprises

Breakup by End Use Industry:

BFSI

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Automotive
Retail and E-Commerce
Government and Defense
Healthcare
Transportation and Logistics
Manufacturing
IT and Telecommunications
Others

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:
The competitive landscape of the industry has also been examined along with the profiles of the key players being ABB Ltd., AIBrain Inc., Brain Corporation, Clearpath

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Robotics Inc., Furhat Robotics, H2O.ai Inc., International Business Machines Corporation, Neurala Inc., NVIDIA Corporation, Teradyne Inc. and The Boeing Company.

Key Questions Answered in This Report

1. What was the size of the global robot software market in 2022?
2. What is the expected growth rate of the global robot software market during 2023-2028?
3. What are the key factors driving the global robot software market?
4. What has been the impact of COVID-19 on the global robot software market?
5. What is the breakup of the global robot software market based on the software type?
6. What is the breakup of the global robot software market based on the robot type?
7. What is the breakup of the global robot software market based on the deployment mode?
8. What is the breakup of the global robot software market based on the enterprise size?
9. What is the breakup of the global robot software market based on the end use industry?
10. What are the key regions in the global robot software market?
11. Who are the key players/companies in the global robot software market?

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