

# **Vision Guided Robotics Software Market Size and Forecast (2020 - 2030), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (Mobile Robot and Fixed Robot), Technology (2D Vision Guided and 3D Vision Guided), Application (Arc Welding, Assembly, Cutting, Palletizing & Machine Tending, Navigation, Random Bin Picking, Collaborative Robots, and Others), and Vertical (Automotive, Electrical & Electronics, Aerospace, Healthcare, Transportation & Logistics, Food & Beverages, and Others)**

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## **Abstracts**

The vision guided robotics software market is expected to grow from US\$ 1.82 billion in 2022 and is expected to reach US\$ 6.03 billion by 2030; it is estimated to record a CAGR of 16.1% from 2022 to 2030.

Prioritizing automation allows business leaders to enhance efficiency, improve performance. The use of robots has increased dramatically in response to the growing need for automation across all industry sectors. Organizations use robotics to automate their processes to offer higher-quality products, expand manufacturing capacities, better serve customers, and manage operations more efficiently. This aspect promotes businesses to embrace robotics and strengthen the market for vision guided robotics. Moreover, manufacturing automation uses technology and machines to accomplish specified activities without human intervention. Automation boosts manufacturing efficiency, productivity, and accuracy while reducing manual work and the risk of human

error. Automation is more vital than ever because of recent supply chain disruptions and labor market pressure. According to the International Federation of Robotics, ~3.5 million industrial robots are used worldwide. As per the Federation, this marks a year-on-year increase of more than 30%, with a tremendous jump in demand since the pandemic. Moreover, several companies are taking initiatives to increase the deployment of automation. For instance, in November 2023, Robot System Products (RSP), an ABB Ltd subsidiary and global leader in industrial robot accessories, is establishing a presence in India to capitalize on prospects in the thriving robotics and industrial automation sectors. With India's industrial robots and automation market expected to nearly treble to US\$25 billion by 2025, RSP intends to maintain its key role in this expansion. Thus, the need of automation can help and increase the implementation of vision guided robotics software market growth.

Global vision guided robotics software market size is segmented by industry vertical into automotive, electrical & electronics, aerospace, healthcare, transportation & logistics, food & beverages, and others. The electrical & electronics segment is projected to grow during the forecast period. With the advent of semiconductors, the electronics industry has been advantageous from an innovation point of view. As the prices of critical components used in the electronics industry—such as fiber cables, chips, and circuits—rise, the manufacturers of electrical goods and electronics are implementing robotic technologies to optimize operational efficiency and reduce labor costs. Robots are used to design electrical and electronic devices, which should have high precision and accuracy to design circuits, chips, and many more. Implementing robotics improves productivity without hampering the quality and precision of the final product. The key areas of implementation of robotics in the electronics industry include palletizing, dispensing, material removal, handling, assembling, and packaging.

ABB Ltd, Fanuc Corp, Cognex Corp, OMRON Corp, MVTec Software GmbH, Pick-it N.V., Ready Robotics Corporation, Siemens AG, Teradyne Inc, and Robotic Vision Technologies (RVT), LLC are among the key vision guided robotics software market players profiled in this market study. Several other essential vision guided robotics software market players were analyzed for a holistic view of the market and its ecosystem.

The overall vision guided robotics software market has been derived using both primary and secondary sources. To begin the vision guided robotics software market research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the vision guided robotics software market. The process also serves the purpose of obtaining an

overview and market forecast of the vision guided robotics software 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 vision guided robotics software market.

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