

Global Industrial Robot Sensors Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Industrial Robot Sensors market size was valued at USD 3534.7 million in 2023 and is forecast to a readjusted size of USD 5152.6 million by 2030 with a CAGR of 5.5% during review period.

Industrial robots can generally be divided into four parts. Namely mechanical part, control part. The sensory part and the recognition part. The sensory part means that the robot USES sensors to absorb information from the outside world and transmit it to the recognition part. The recognition part feeds back the recognized information to the control part, and then feeds back to the sensitive part for operation control. Sensors play an important role in the construction of robots and are the key to the performance of robots. Robot sensors are different from industrial sensors which are widely used. They have higher requirements on the types of sensor information and intelligent processing. Both research and industrialization. All need to have a variety of subjects specialized technology and advanced craft equipment as a support. Robot sensors mainly include robot visual sense, tactile sense, proximity sense, distance sense, posture sense, position sense and other sensors. - the use and development of aspect sensors improve the level of robots and promote the deepening of robot technology; On the other hand, because of many difficulties in sensing technology, the development of robot is restrained and affected. To what extent the intelligent robot can develop in the future, the sensor will be one of the important keys. Therefore, only the development of high performance sensors can make the robot have good intelligent interface function.

The visual sensing system can be based on anything from the traditional camera, sonar, and laser to the new technology radio frequency identification (RFID), which transmits

radio signals to a tag on an object that emits back an identification code. Touch sensory signals can be generated by the robot's own movements. It is important to identify only the external tactile signals for accurate operations. Previous solutions employed the Wiener filter, which relies on the prior knowledge of signal statistics that are assumed to be stationary. Recent solution applies an adaptive filter to the robot's logic. It enables the robot to predict the resulting sensor signals of its internal motions, screening these false signals out. Accurate audio sensors require low internal noise contribution. Traditionally, audio sensors combine acoustical arrays and microphones to reduce internal noise level. Recent solutions combine also piezoelectric devices. A velocity or speed sensor measures consecutive position measurements at known intervals and computes the time rate of change in the position values.

The Global Info Research report includes an overview of the development of the Industrial Robot Sensors industry chain, the market status of Agriculture (Vision Sensors, Force Torque Sensors), Automotive (Vision Sensors, Force Torque Sensors), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Industrial Robot Sensors.

Regionally, the report analyzes the Industrial Robot Sensors markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Industrial Robot Sensors market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Industrial Robot Sensors market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Industrial Robot Sensors industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Vision Sensors, Force Torque Sensors).

Industry Analysis: Report analyse the broader industry trends, such as government

policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Industrial Robot Sensors market.

Regional Analysis: The report involves examining the Industrial Robot Sensors market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Industrial Robot Sensors market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Industrial Robot Sensors:

Company Analysis: Report covers individual Industrial Robot Sensors manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Industrial Robot Sensors. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Agriculture, Automotive).

Technology Analysis: Report covers specific technologies relevant to Industrial Robot Sensors. It assesses the current state, advancements, and potential future developments in Industrial Robot Sensors areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Industrial Robot Sensors market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Industrial Robot Sensors market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Vision Sensors

Force Torque Sensors

Temperature Sensors

Pressure Sensors

Position Sensors

Others

Market segment by Application

Agriculture

Automotive

Healthcare

Military

Others

Major players covered

ATI Industrial Automation

Fanuc

FUTEK Advanced Sensor Technology

Honeywell International

ams AG

Cognex

OTC Daihen

Hermaty Opto Electronics

Inilabs

MaxBotix

Perception Robotics

Roboception

EPSON

Tekscan

Omron

TE Connectivity (TE)

Basler

ISRA VISION

NXP Semiconductors

Freescale Semiconductor

STMicroelectronics NV

Texas Instruments

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Industrial Robot Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Industrial Robot Sensors, with price, sales, revenue and global market share of Industrial Robot Sensors from 2019 to 2024.

Chapter 3, the Industrial Robot Sensors competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Industrial Robot Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Industrial Robot Sensors market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Industrial Robot Sensors.

Chapter 14 and 15, to describe Industrial Robot Sensors sales channel, distributors, customers, research findings and conclusion.

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