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Global PC Based Automation Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global PC Based Automation market size was valued at USD 25890 million in 2023 and is forecast to a readjusted size of USD 31150 million by 2030 with a CAGR of 2.7% during review period.

Today’s new generation of engineers has seen PC technologies in every facet of their development, from smart phones to smart TVs to tablets to cloud computing. These commercial developments have found their way into the manufacturing world, from initial product design to fabrication to final product deployment to end of life and recycling of the technology and/or materials. We are now experiencing the dawn of the digital factory and an increasing volume of plant floor data with smart devices. This trend is leading to increased use of PC-based automation.

Traditional approach by manufacturing industries comprised implementation of customized controller or PLC for enhancing field unit and resolving technical issues based on process. A PC-based solution is executed to fetch data from various controllers to transfer the data at processing layer, which can also be processed by MES and ERP layers. Mostly, PC-based solutions are engaged with other automation related acquisition software where end-users are in constant need for higher demands for accurate, precise, and enhanced productivity associated with a cost-effective solution. Therefore, the growing challenge for business enterprises is to achieve low-cost expenditure and provide an advance solution to end-users. In order to counter this problem, many manufacturing players implement PC-based automation with various software to achieve high performance as required on the field layer.

The Global Info Research report includes an overview of the development of the PC

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Based Automation industry chain, the market status of Oil & Gas (Human Machine Interface (HMI), Programmable Logic Controller (PLCs)), Chemicals (Human Machine Interface (HMI), Programmable Logic Controller (PLCs)), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of PC Based Automation.

Regionally, the report analyzes the PC Based Automation 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 PC Based Automation market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the PC Based Automation 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 PC Based Automation 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 revenue generated, and market share of different by Type (e.g., Human Machine Interface (HMI), Programmable Logic Controller (PLCs)).

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 PC Based Automation market.

Regional Analysis: The report involves examining the PC Based Automation 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 PC Based Automation market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

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The report also involves a more granular approach to PC Based Automation:

Company Analysis: Report covers individual PC Based Automation players, 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 PC Based Automation This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Oil & Gas, Chemicals).

Technology Analysis: Report covers specific technologies relevant to PC Based Automation. It assesses the current state, advancements, and potential future developments in PC Based Automation areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the PC Based Automation 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

PC Based Automation 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 value.

Market segment by Type

Human Machine Interface (HMI)

Programmable Logic Controller (PLCs)

Distributed Control System (DCS)

Supervisory Control and Data Acquisition (SCADA)

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Market segment by Application

- Oil & Gas
- Chemicals
- Pharmaceuticals
- Mining & Metals
- Food & Beverages
- Energy & Power

Market segment by players, this report covers

- Honeywell
- Beckhoff Automation
- Emerson Electric
- Mitsubishi Electric
- OMRON
- Robert Bosch
- IDEC
- Schneider Electric
- Siemens
- Kontron S&T

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ABB

Advantech

Rockwell Automation

Yokogawa Electric

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

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

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

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe PC Based Automation product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of PC Based Automation, with revenue, gross margin and global market share of PC Based Automation from 2019 to 2024.

Chapter 3, the PC Based Automation competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024.and PC

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Based Automation market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of PC Based Automation.

Chapter 13, to describe PC Based Automation research findings and conclusion.

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