

Global Industrial Automation Variable-frequency Drive Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Industrial Automation Variable-frequency Drive market size was valued at US\$ 5263 million in 2025 and is forecast to a readjusted size of US\$ 8195 million by 2032 with a CAGR of 6.8% during review period.

An Industrial Automation Variable-frequency Drive (VFD) is an electronic power-conversion device that adjusts the speed, torque, and direction of AC motors by varying input frequency and voltage. VFDs optimize motor performance, reduce energy consumption, enhance process control, and increase equipment longevity. Commonly used in pumps, fans, compressors, conveyors, machining tools, and robotics, VFDs form a core component of modern industrial automation systems. They integrate power electronics, control algorithms, communication interfaces, sensing modules, and safety protections, supporting Industry 4.0 requirements such as predictive maintenance, networking, and high-efficiency motor control.

The industrial automation VFD industry chain starts with upstream suppliers of power semiconductors (IGBTs, SiC MOSFETs), capacitors, PCBs, microcontrollers, magnetic components, cooling systems, and industrial enclosures; moves into midstream VFD manufacturers who design control algorithms, assemble power modules, integrate communication interfaces, perform thermal and reliability testing, and develop application-specific firmware; and concludes with downstream OEMs, system integrators, and industrial end users across manufacturing, HVAC, water treatment, oil and gas, and mining sectors that deploy VFDs to improve motor efficiency, automation performance, and energy savings.

Current global projects include expansions of SiC-based high-efficiency VFD production in China, Japan, and Europe; new manufacturing lines for mid-power industrial drives in India and Southeast Asia; North American initiatives to localize VFD production for critical infrastructure; upgrades of European factories for Industry 4.0-ready VFDs with advanced connectivity; joint ventures between semiconductor suppliers and drive manufacturers to secure power-device supply; and multiple automation-system upgrade programs across water treatment, HVAC, and smart factories scheduled for commissioning between 2025 and 2028.

2025 Global Market sales Volume: 9.3 million units, Average Global Market Price: USD 550 per unit, Market Average Gross Profit Margin: 22%.

This report is a detailed and comprehensive analysis for global Industrial Automation Variable-frequency Drive market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Industrial Automation Variable-frequency Drive market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Industrial Automation Variable-frequency Drive market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Industrial Automation Variable-frequency Drive market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Industrial Automation Variable-frequency Drive market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

Global Industrial Automation Variable-frequency Drive Market 2026 by Manufacturers, Regions, Type and Applicat...

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Industrial Automation Variable-frequency Drive

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Industrial Automation Variable-frequency Drive market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include OMRON, Bosch Rexroth, ABB, Siemens, Schneider Electric, Danfoss, Yaskawa Electric, Rockwell Automation (Allen-Bradley), Delta Electronics, Fuji Electric, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Industrial Automation Variable-frequency Drive market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Low-power (500 kW)

Market segment by Motor Type Supported

Induction Motor

Permanent Magnet Synchronous Motor (PMSM)

Servo Motor

Others

Market segment by Control Method

Volt-per-Hertz Control

Sensorless Vector Control

Field-oriented Vector Control (FOC)

Others

Market segment by Application

Automotive

Electronics

Food

Pharma

Utilities and Water Treatment

Chemical & Petrochemical

Others

Major players covered

OMRON

Bosch Rexroth

ABB

Siemens

Schneider Electric

Danfoss

Yaskawa Electric

Rockwell Automation (Allen-Bradley)

Delta Electronics

Fuji Electric

GE Vernova

Honeywell

WEG

Sumitomo Heavy Industries

Inovance

Eaton

NOVOSENSE

INVT

Lenze

Hitachi

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 Automation Variable-frequency Drive product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Industrial Automation Variable-frequency Drive, with price, sales quantity, revenue, and global market share of Industrial Automation Variable-frequency Drive from 2021 to 2026.

Chapter 3, the Industrial Automation Variable-frequency Drive competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Industrial Automation Variable-frequency Drive breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Industrial Automation Variable-frequency Drive market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Automation Variable-frequency Drive.

Chapter 14 and 15, to describe Industrial Automation Variable-frequency Drive sales channel, distributors, customers, research findings and conclusion.

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