

# Global Industrial Automation Variable-frequency Drive Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Industrial Automation Variable-frequency Drive market size is expected to reach \$ 8195 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

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 studies the global Industrial Automation Variable-frequency Drive production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Industrial Automation Variable-frequency Drive and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Industrial Automation Variable-frequency Drive that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Industrial Automation Variable-frequency Drive total production and demand, 2021-2032, (K Units)

Global Industrial Automation Variable-frequency Drive total production value, 2021-2032, (USD Million)

Global Industrial Automation Variable-frequency Drive production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Industrial Automation Variable-frequency Drive consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Industrial Automation Variable-frequency Drive domestic production, consumption, key domestic manufacturers and share

Global Industrial Automation Variable-frequency Drive production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Industrial Automation Variable-frequency Drive production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Industrial Automation Variable-frequency Drive production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Industrial Automation Variable-frequency Drive market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Industrial Automation Variable-frequency Drive market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Industrial Automation Variable-frequency Drive Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Industrial Automation Variable-frequency Drive Market, Segmentation by Type:

Low-power (500 kW)

Global Industrial Automation Variable-frequency Drive Market, Segmentation by Motor Type Supported:

Induction Motor

Permanent Magnet Synchronous Motor (PMSM)

Servo Motor

Others

Global Industrial Automation Variable-frequency Drive Market, Segmentation by Control Method:

Volt-per-Hertz Control

Sensorless Vector Control

Field-oriented Vector Control (FOC)

Others

Global Industrial Automation Variable-frequency Drive Market, Segmentation by Application:

Automotive

Electronics

Food

Pharma

Utilities and Water Treatment

Chemical & Petrochemical

Others

**Companies Profiled:**

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

**Key Questions Answered:**

1. How big is the global Industrial Automation Variable-frequency Drive market?
2. What is the demand of the global Industrial Automation Variable-frequency Drive market?
3. What is the year over year growth of the global Industrial Automation Variable-frequency Drive market?
4. What is the production and production value of the global Industrial Automation Variable-frequency Drive market?
5. Who are the key producers in the global Industrial Automation Variable-frequency Drive market?
6. What are the growth factors driving the market demand?

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