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Global Variable Frequency Inverters for Injection Molding Machine 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 Variable Frequency Inverters for Injection Molding Machine market size was valued at US$ 408 million in 2025 and is forecast to a readjusted size of US$ 559 million by 2032 with a CAGR of 4.6% during review period.

Variable Frequency Inverter for Injection Molding Machines (IMM VFD) designed to control the hydraulic pump or servo-hydraulic system in injection molding machines, regulating motor speed and torque to optimize the injection, clamping, plasticizing, and cooling processes. IMM VFDs significantly reduce energy consumption (typically 30?70%), improve pressure control stability, reduce heat generation, extend hydraulic component life, and enhance molding precision. These drives incorporate fast-response vector control, multi-stage pressure/flow profiles, and application algorithms tailored for the dynamic cycles of injection molding machinery in plastics manufacturing.

The industry chain for IMM VFDs begins with upstream suppliers of IGBT/SiC power modules, control chips, encoders, hydraulic sensors, cooling units, housings, and PCBs; moves into midstream manufacturers who develop injection-cycle algorithms, vector control models, pressure/flow control systems, servo pump integration, and assemble high-reliability inverter units; and ends with downstream IMM OEMs, plastics processors, automotive suppliers, appliance producers, and electronics molding factories that rely on these inverters to improve speed, precision, energy efficiency, and operational stability in injection molding processes.

Current projects include expansions of servo pump VFD production in China and Southeast Asia, upgrades of European IMM VFD lines for automotive-grade molding

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precision, development of SiC-based high-speed inverters in Japan and Korea, large-scale retrofit programs for old hydraulic IMMs across India and South America, partnerships between IMM OEMs and drive manufacturers to co-develop low-energy servo systems, and R&D initiatives introducing AI-driven cycle optimization algorithms scheduled for commercialization between 2025 and 2028.

2025 Global Market sales Volume: 0.7 million units, Average Global Market Price: 592 USD per unit, Market Average Gross Profit Margin: 26%.

This report is a detailed and comprehensive analysis for global Variable Frequency Inverters for Injection Molding Machine 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 Variable Frequency Inverters for Injection Molding Machine market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Variable Frequency Inverters for Injection Molding Machine 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 Variable Frequency Inverters for Injection Molding Machine 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 Variable Frequency Inverters for Injection Molding Machine 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:

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

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To assess the growth potential for Variable Frequency Inverters for Injection Molding Machine

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 Variable Frequency Inverters for Injection Molding Machine 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 ABB, Delta Electronics, Danfoss, Inovance, INVT, Suzhou Veichi Electric Co, Hope Senlan Science And Technology Holding Corp, ZHEJIANG NEW FOLINN ELECTRIC CO.,LTD, DaLian Powtran Technology Co, MICNO, etc.

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

Market Segmentation

Variable Frequency Inverters for Injection Molding Machine 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 Performance Requirements

High-torque

Precision-vector

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Others

Market segment by Motor Type Supported

Induction Motor

Permanent Magnet Synchronous Motor (PMSM)

Servo Motor

Others

Market segment by Application

Hydraulic Injection Molding Machine

Servo Injection Molding Machine

Hybrid Injection Molding Equipment

Major players covered

ABB

Delta Electronics

Danfoss

Inovance

INVT

Suzhou Veichi Electric Co

Hope Senlan Science And Technology Holding Corp

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ZHEJIANG NEW FOLINN ELECTRIC CO.,LTD

DaLian Powtran Technology Co

MICNO

QMA Electric

Shenou

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 Variable Frequency Inverters for Injection Molding Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Variable Frequency Inverters for Injection Molding Machine, with price, sales quantity, revenue, and global market share of Variable Frequency Inverters for Injection Molding Machine from 2021 to 2026.

Chapter 3, the Variable Frequency Inverters for Injection Molding Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

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Chapter 4, the Variable Frequency Inverters for Injection Molding Machine 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 Variable Frequency Inverters for Injection Molding Machine 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 Variable Frequency Inverters for Injection Molding Machine.

Chapter 14 and 15, to describe Variable Frequency Inverters for Injection Molding Machine sales channel, distributors, customers, research findings and conclusion.

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