

Global Machine Tool 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 Machine Tool Variable Frequency Drive market size was valued at US\$ 623 million in 2025 and is forecast to a readjusted size of US\$ 947 million by 2032 with a CAGR of 6.2% during review period.

In 2025, global sales volume of Machine Tool Variable Frequency Drive was approximately 1.1 million units, with a global average selling price of about USD 550 per unit. The gross margin of major manufacturers was generally around 28%-45%.

A Machine Tool Variable Frequency Drive is a type of AC variable frequency drive optimized for machine tool operating conditions. It is mainly used for speed regulation, start-stop control, torque control, and operational protection of machine tool motors. Compared with general-purpose variable frequency drives, it places greater emphasis on spindle speed control accuracy, low-speed torque output, high-speed stability, rapid start-stop performance, anti-interference capability, and compatibility with CNC systems. It can support V/F control, open-loop vector control, and closed-loop vector control, and can be adapted to asynchronous motors, synchronous motors, or synchronous/asynchronous compatible platforms, meeting the requirements of machine tool processing for speed stability, response performance, and reliability.

The upstream segment of Machine Tool Variable Frequency Drive mainly includes power semiconductor devices, control chips, driver boards, rectifier modules, capacitors, reactors, heat sinks, sensors, PCBs, structural components, and embedded control software. The midstream segment consists of variable frequency drive manufacturers responsible for power electronics design, control algorithm development, system assembly, parameter tuning, and reliability testing. Downstream applications

mainly cover various machine tool equipment used in machinery manufacturing, automotive parts, mold manufacturing, electronics manufacturing, aerospace, and other industries, where the product is used for spindle drive, auxiliary motor control, pump load speed regulation, feeding and chip removal, and stable operation control during machining processes.

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

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

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

Global Machine Tool Variable Frequency Drive market shares of main players, shipments in revenue (\$ Million), sales quantity (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

To assess the growth potential for Machine Tool 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 Machine Tool 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 Yaskawa Electric, Siemens, Shenzhen V&T Technologies, VEICHI Electric, Jiangxi Ruitian Kechuang Electric Technology, Huayuan Electric, Shenzhen Sine Electric, Hangzhou SAKO Frequency Technology, Frecon Electric (Shenzhen), Shenzhen INVT Electric, etc.

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

Market Segmentation

Machine Tool 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

V/F Control Type

Open-loop Vector Control Type

Closed-loop Vector Control Type

Market segment by Motor Compatibility

Asynchronous Motor Type

Synchronous Motor Type

Synchronous/Asynchronous Compatible Type

Market segment by Application

Machinery Manufacturing

Automotive Parts

Mold Manufacturing

Electronics Manufacturing

Aerospace

Other

Major players covered

Yaskawa Electric

Siemens

Shenzhen V&T Technologies

VEICHI Electric

Jiangxi Ruitian Kechuang Electric Technology

Huayuan Electric

Shenzhen Sine Electric

Hangzhou SAKO Frequency Technology

Frecon Electric (Shenzhen)

Shenzhen INVT Electric

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 Machine Tool Variable Frequency Drive product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Machine Tool 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 Machine Tool 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 Machine Tool Variable Frequency Drive.

Chapter 14 and 15, to describe Machine Tool Variable Frequency Drive sales channel, distributors, customers, research findings and conclusion.

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