

Global Machine Tool Variable Frequency Drive Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Machine Tool Variable Frequency Drive market size is expected to reach \$ 947 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

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 studies the global Machine Tool Variable Frequency Drive production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Machine Tool 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 Machine Tool Variable Frequency Drive that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Machine Tool Variable Frequency Drive total production and demand, 2021-2032, (Units)

Global Machine Tool Variable Frequency Drive total production value, 2021-2032, (USD Million)

Global Machine Tool Variable Frequency Drive production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Machine Tool Variable Frequency Drive consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Machine Tool Variable Frequency Drive domestic production, consumption, key domestic manufacturers and share

Global Machine Tool Variable Frequency Drive production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Machine Tool Variable Frequency Drive production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Machine Tool Variable Frequency Drive production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Machine Tool 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Machine Tool Variable Frequency Drive market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Machine Tool Variable Frequency Drive Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Machine Tool Variable Frequency Drive Market, Segmentation by Type:

V/F Control Type

Open-loop Vector Control Type

Closed-loop Vector Control Type

Global Machine Tool Variable Frequency Drive Market, Segmentation by Motor Compatibility:

Asynchronous Motor Type

Synchronous Motor Type

Synchronous/Asynchronous Compatible Type

Global Machine Tool Variable Frequency Drive Market, Segmentation by Application:

Machinery Manufacturing

Automotive Parts

Mold Manufacturing

Electronics Manufacturing

Aerospace

Other

Companies Profiled:

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

Key Questions Answered:

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

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