

Global Machine Tool Variable Frequency Drive Market Growth 2026-2032

<https://marketpublishers.com/r/G142E34B8DE9EN.html>

Date: July 2026

Pages: 91

Price: US\$ 3,660.00 (Single User License)

ID: G142E34B8DE9EN

Abstracts

The global Machine Tool Variable Frequency Drive market size is predicted to grow from US\$ 592 million in 2025 to US\$ 920 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 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.

United States market for Machine Tool Variable Frequency Drive is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Machine Tool Variable Frequency Drive is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Machine Tool Variable Frequency Drive is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Machine Tool Variable Frequency Drive players cover Yaskawa Electric, Siemens, Shenzhen V&T Technologies, VEICHI Electric, Jiangxi Ruitian Kechuang Electric Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Machine Tool Variable Frequency Drive Industry Forecast" looks at past sales and reviews total world Machine Tool Variable Frequency Drive sales in 2025, providing a comprehensive analysis by region and market sector of projected Machine Tool Variable Frequency Drive sales for 2026 through 2032. With Machine Tool Variable Frequency Drive sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Machine Tool Variable Frequency Drive industry.

This Insight Report provides a comprehensive analysis of the global Machine Tool Variable Frequency Drive landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Machine Tool Variable Frequency Drive portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Machine Tool Variable Frequency Drive market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Machine Tool Variable Frequency Drive and breaks down

the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Machine Tool Variable Frequency Drive.

This report presents a comprehensive overview, market shares, and growth opportunities of Machine Tool Variable Frequency Drive market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

V/F Control Type

Open-loop Vector Control Type

Closed-loop Vector Control Type

Segmentation by Motor Compatibility:

Asynchronous Motor Type

Synchronous Motor Type

Synchronous/Asynchronous Compatible Type

Segmentation by Application:

Machinery Manufacturing

Automotive Parts

Mold Manufacturing

Electronics Manufacturing

Aerospace

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Machine Tool Variable Frequency Drive market?

What factors are driving Machine Tool Variable Frequency Drive market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Machine Tool Variable Frequency Drive market opportunities vary by end market size?

How does Machine Tool Variable Frequency Drive break out by Type, by Application?

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