

Global Electric Spindles Market Size study, by Type (Built-in Spindle, Motorized Spindle), by Application (Internal Grinding, High-speed Cutting, CNC Milling, Axis Milling, Dressing) and Regional Forecasts for 2022-2032

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Abstracts

Global Electric Spindles Market is valued at approximately USD 1.47 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 6.21% over the forecast period 2024-2032. The electric Spindle is a new technology in CNC machines that combines the spindle and motor. It comprises components such as a spindle, a frequency converter, an oil lubricator, a cooling system, an encoder, and a tool changer. This integration removes transmission parts such as belts or gear enhancing high-speed performance. The Motor inside the Electric Spindle offers high speed, accuracy, and low noise and ensures efficient high-speed rotations without belt or gear constraints. The Global Electric Spindles Market is gaining attention due to trends favoring faster machining, advanced technology integration, precision focus, and sustainability. These trends drive the adoption of electric spindle technology and enhance performance and efficiency. The Global Electric Spindles Market's significance rises as it fulfils market needs for speed, accuracy, and eco-friendly solutions, driving advancements in CNC machining capabilities.

A shift towards advancements in machining technology and the need for higher productivity primarily drives the Global Electric Spindle Market. One of the prominent drivers is the shift towards automation and advanced manufacturing techniques, where electric spindle technology plays a crucial role in achieving efficiency and precision. This trend towards automation reflects the market's continuous quest for improved performance and cost-effective solutions, driving the widespread adoption of electric spindles across different manufacturing sectors. However, Electric spindles can be

lubricated using grease, oil mist, or oil-air methods. Grease and oil mist are popular, although they can't control the oil supply well, which affects spindle performance and lifespan. Mist lubrication can harm the environment, while oil-air lubrication is better at controlling oil although it is expensive and complicated.

The key regions considered for the Global Electric Spindles market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. In the Global Electric Spindle Market, Asia Pacific emerges as the dominating region, driven by rapid industrialization and technological advancements. The region has significant manufacturing sectors that extensively use CNC machine tools, boosting the demand for electric spindles. Moreover, the region's focus on automation and precision engineering further fuels market growth. Asia Pacific stands out as a major player due to its large-scale manufacturing activities and investments in advanced machining technologies making it a crucial market for the Global Electric Spindle Market players seeking expansion opportunities. On the other hand, North America is the fastest-growing region for electric spindle adoption, driven by innovations in automation and high-tech industries such as aerospace and automotive.

Major market players included in this report are:

Siemens AG
FISCHER Spindle Group AG
Novanta Inc.
Kessler Group
Guangzhou Haozhi Industrial Co., Ltd.
GMN Paul Müller Industrie GmbH & Co. KG
Step-Tec AG
IBAG Group
HSD SpA
Alfred Jäger GmbH

The detailed segments and sub-segments of the market are explained below:

By Type

Built-in Spindle

Motorized Spindle

By Application

Internal Grinding

High-speed Cutting

CNC Milling

Axis Milling

Dressing

?

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major

regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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