

Global Static Excitation System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Static Excitation System market size is expected to reach \$ 818 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

In 2025, global static excitation system production reached approximately 1781 unit, the average price is 330 k usd/unit. Static excitation system is an excitation device for synchronous generator, its core characteristic lies in that all static power electronic devices are adopted without rotating motor. The system usually obtains AC power from generator end or auxiliary power supply through excitation transformer, converts it into controllable DC power through SCR rectifier bridge, and then directly supplies it to generator rotor winding through brush and slip ring to establish magnetic field. The core of the system is automatic voltage regulator. It monitors generator voltage and current in real time, and accurately controls excitation current by rapidly adjusting trigger angle of thyristor, so as to maintain stable generator terminal voltage and realize reactive power distribution during parallel operation. Compared with traditional rotary exciter, it has the advantages of fast response speed, high adjustment accuracy, simple maintenance and high reliability. It is the mainstream excitation mode of modern large and medium-sized hydrogenerators and turbogenerators.

Market Concentration and Key Players:

Internationally, the market concentration of static excitation system is relatively high, mainly concentrated in developed countries such as Europe, America and Japan. For example, Siemens and Hitachi and other large manufacturers; from the domestic point of view, static excitation system still has a lot of room for development.

Manufacturing Processes and Market Trends:

The manufacturing process of static excitation system centers on high reliability power electronics and control system, and its core includes precision mounting and welding of automatic voltage regulator printed circuit board, selection of high power silicon controlled rectifier bridge and assembly with high efficiency radiator, winding and insulation treatment of excitation transformer, and integration of various sensors and protection devices. All components are strictly wired and assembled in the anti-electromagnetic interference cabinet, and then they need to undergo multi-level functional testing. Such as low voltage control signal calibration, high current test of power cabinet and joint dynamic debugging with analog generator platform to ensure that its voltage regulation accuracy, fast response ability and forced excitation peak value meet strict standards.

In terms of market trends, under the background of the global power system's transformation to clean energy and intelligent upgrading, static excitation system, as a key equipment to ensure the stable operation of power grid, is closely connected with hydropower, thermal power transformation and new energy grid-connected projects. Technological development is committed to improving dynamic response speed to enhance power grid support capability, and widely integrates digital monitoring and remote diagnosis functions. The use of new semiconductor devices such as silicon carbide to improve efficiency and power density has become a cutting-edge direction. At the same time, international brands compete fiercely with local manufacturers to promote continuous progress in cost optimization and adaptive design of products, serving a wider range of overseas power infrastructure construction markets.

This report studies the global Static Excitation System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Static Excitation System 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 Static Excitation System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Static Excitation System total production and demand, 2021-2032, (K Units)

Global Static Excitation System total production value, 2021-2032, (USD Million)

Global Static Excitation System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Static Excitation System consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Static Excitation System domestic production, consumption, key domestic manufacturers and share

Global Static Excitation System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Static Excitation System production by Excitation, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Static Excitation System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Static Excitation System 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 Hitachi, Emerson Electric Co., Mitsubishi Electric, Reivax, BEVI, Jenkins, Atul Electronics, Electro Drives S.L., Siemens Energy, GE Vernova, 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 Static Excitation System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (K US\$/Unit) by manufacturer, by Excitation, 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 Static Excitation System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Static Excitation System Market, Segmentation by Excitation:

Compound Source Static Excitation System

Potential Source Static Excitation System

Global Static Excitation System Market, Segmentation by Power Device:

Thyristor

IGBT

Global Static Excitation System Market, Segmentation by Pulse:

2-pulse

6-pulse

12-pulse

Others

Global Static Excitation System Market, Segmentation by Application:

Hydraulic Turbine

Gas Turbines

Wind Turbine

Steam Turbine

Companies Profiled:

Hitachi

Emerson Electric Co.

Mitsubishi Electric

Reivax

BEVI

Jenkins

Atul Electronics

Electro Drives S.L.

Siemens Energy

GE Vernova

ANDRITZ Hydro

Basler Electric

Voith Hydro

Nidec Industrial Solutions

Jeumont Electric

Ansaldo Energia

Key Questions Answered:

1. How big is the global Static Excitation System market?
2. What is the demand of the global Static Excitation System market?
3. What is the year over year growth of the global Static Excitation System market?
4. What is the production and production value of the global Static Excitation System market?
5. Who are the key producers in the global Static Excitation System market?
6. What are the growth factors driving the market demand?

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