

Global Synchronous Reluctance Motor (SynRM) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Synchronous Reluctance Motor (SynRM) market size is expected to reach \$ 586 million by 2032, rising at a market growth of 11.8% CAGR during the forecast period (2026-2032).

Synchronous reluctance motor (SynRM) is a motor based on the principle of synchronous motor. There are no permanent magnets or excitation coils on its rotor, only some air gaps made of reluctance material. When the stator of the motor is energized, a rotating magnetic field is generated on the stator, and this rotating magnetic field generates a rotational torque with the air gap on the rotor, thereby driving the rotor of the motor to rotate. In 2025, global Synchronous reluctance motor (SynRM) production reached approximately 114.06 K Units. For pure SynRM (magnet-free rotor), the most critical upstream materials are NOES electrical steel (laminations), copper magnet wire (stator winding), and insulation systems (Nomex papers, impregnation resins/varnishes). Synchronous Reluctance Motors (SynRM) are primarily used in variable-speed, energy-efficient industrial applications. Demand is strongly concentrated in pumps, fans, and compressors—typical variable-torque loads across process industries such as chemicals, water treatment, metals, pulp & paper, and food & beverage. In discrete industries, SynRM is applied in conveyors, packaging machinery, and auxiliary drives for automated production lines. With increasing electrification and efficiency requirements, PM-assisted SynRM is also gaining traction in rail, construction machinery, and selected transportation applications, although volumes remain relatively limited.

The Synchronous Reluctance Motor (SynRM) market is gaining momentum as a high-efficiency, magnet-free motor technology aligned with global industrial energy-efficiency upgrades. Market growth is primarily driven by tightening IE4–IE5 efficiency regulations,

large-scale motor system retrofits, and increasing penetration of variable frequency drives (VFDs). SynRM adoption is strongly concentrated in pumps, fans, and compressors within process industries, with motor–drive packages becoming the dominant commercial model. While challenges remain in power factor performance, system complexity, and market awareness, the absence of permanent magnets and favorable total cost of ownership support a steady medium- to long-term growth outlook for the SynRM market.

This report studies the global Synchronous Reluctance Motor (SynRM) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Synchronous Reluctance Motor (SynRM) 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 Synchronous Reluctance Motor (SynRM) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Synchronous Reluctance Motor (SynRM) total production and demand, 2021-2032, (K Units)

Global Synchronous Reluctance Motor (SynRM) total production value, 2021-2032, (USD Million)

Global Synchronous Reluctance Motor (SynRM) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Synchronous Reluctance Motor (SynRM) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Synchronous Reluctance Motor (SynRM) domestic production, consumption, key domestic manufacturers and share

Global Synchronous Reluctance Motor (SynRM) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Synchronous Reluctance Motor (SynRM) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Synchronous Reluctance Motor (SynRM) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Synchronous Reluctance Motor (SynRM)

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 ABB, Danfoss, Innomotics, KSB (REEL), Bonfiglioli, Oemer Motori, Nidec Leroy-Somer, Delta Electronics, TECO, Changzhou Nanfang Motor, 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 Synchronous Reluctance Motor (SynRM) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Synchronous Reluctance Motor (SynRM) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Synchronous Reluctance Motor (SynRM) Market, Segmentation by Type:

0-30 KW

30-100 KW

Above 100 KW

Global Synchronous Reluctance Motor (SynRM) Market, Segmentation by Technology Route:

PM-assisted SynRM

Pure SynRM

Global Synchronous Reluctance Motor (SynRM) Market, Segmentation by Load Type:

Variable-torque Loads

Constant or Cyclic Torque Loads

Global Synchronous Reluctance Motor (SynRM) Market, Segmentation by Application Scenarios:

Pumps & Pumping Systems

Fans, Blowers & Ventilation Systems

Compressors

Conveyors & Material Handling Equipment

Mixers, Agitators & Process Machinery

Discrete Automation Equipment

Others

Global Synchronous Reluctance Motor (SynRM) Market, Segmentation by Application:

Process Industries

Discrete Industries

Transportation

Companies Profiled:

ABB

Danfoss

Innomotics

KSB (REEL)

Bonfiglioli

Oemer Motori

Nidec Leroy-Somer

Delta Electronics

TECO

Changzhou Nanfang Motor

Mark Elektriks

Hezhong Energy

Key Questions Answered:

1. How big is the global Synchronous Reluctance Motor (SynRM) market?
2. What is the demand of the global Synchronous Reluctance Motor (SynRM) market?
3. What is the year over year growth of the global Synchronous Reluctance Motor (SynRM) market?
4. What is the production and production value of the global Synchronous Reluctance Motor (SynRM) market?
5. Who are the key producers in the global Synchronous Reluctance Motor (SynRM) market?
6. What are the growth factors driving the market demand?

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