

Global Rail Transit Permanent Magnet Synchronous Motor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Rail Transit Permanent Magnet Synchronous Motor market size is expected to reach \$ 167 million by 2032, rising at a market growth of 3.1% CAGR during the forecast period (2026-2032).

In 2025, the global production of rail transit permanent magnet synchronous motors reached 2,155 units, with an average selling price of \$55,000 per unit. The global annual production capacity of these motors is approximately 3,000 units, and the gross profit margin is about 32.6%. Rail transit permanent magnet synchronous motors are high-efficiency electric motors widely used in rail transit systems such as subways, light rail, and high-speed railways. These motors are extensively applied in train traction systems to provide propulsion, ensuring good acceleration performance and high efficiency during operation. The upstream of rail transit permanent magnet synchronous motors includes permanent magnet materials, rare earth raw materials, and insulation materials, among others. The midstream consists of manufacturers of these motors, while the downstream mainly covers applications in urban rail transit (subways), high-speed railways, and conventional trains.

Currently, the market for rail transit permanent magnet synchronous motors is in a phase of rapid development, with their notable technical advantages—such as high efficiency, high power density, and low noise—gradually enabling them to replace traditional induction motors and become the core choice for traction systems in subways, light rail, and high-speed trains. Worldwide, the green and low-carbon transition in rail transit, along with the electrification upgrade of existing lines, continues to generate strong demand, driving the large-scale application of this technology. Concurrently, advances in upstream rare-earth permanent magnet materials and insulation technologies are continuously improving motor performance and reliability,

while downstream operators' increasing emphasis on total life-cycle economics has further accelerated market penetration. Nevertheless, the market still faces challenges such as raw material price volatility, high system integration complexity, and divergent technical standards across regions. Overall, the industry is evolving toward higher efficiency, lighter weight, and greater intelligence, with a maturing competitive landscape.

Report Scope

This report studies the global Rail Transit Permanent Magnet Synchronous Motor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Rail Transit Permanent Magnet Synchronous Motor 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 Rail Transit Permanent Magnet Synchronous Motor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Rail Transit Permanent Magnet Synchronous Motor total production and demand, 2021-2032, (Units)

Global Rail Transit Permanent Magnet Synchronous Motor total production value, 2021-2032, (USD Million)

Global Rail Transit Permanent Magnet Synchronous Motor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Rail Transit Permanent Magnet Synchronous Motor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Rail Transit Permanent Magnet Synchronous Motor domestic production, consumption, key domestic manufacturers and share

Global Rail Transit Permanent Magnet Synchronous Motor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Rail Transit Permanent Magnet Synchronous Motor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Rail Transit Permanent Magnet Synchronous Motor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Rail Transit Permanent Magnet Synchronous Motor 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 CRRC Zhuzhou Electric, ABB, Alstom, Siemens, Toshiba, VEM Group, Hitachi, Skoda Transportation, 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 Rail Transit Permanent Magnet Synchronous Motor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Rail Transit Permanent Magnet Synchronous Motor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Rail Transit Permanent Magnet Synchronous Motor Market, Segmentation by Type:

Surface Mount Permanent Magnet Motor

Embedded Permanent Magnet Motor

Global Rail Transit Permanent Magnet Synchronous Motor Market, Segmentation by Cooling Method:

Natural Cooling

Forced Air Cooling

Liquid Cooling

Oil Cooling

Global Rail Transit Permanent Magnet Synchronous Motor Market,

Global Rail Transit Permanent Magnet Synchronous Motor Supply, Demand and Key Producers, 2026-2032

Segmentation by Power:

<150 kW

150–300 kW

300–600 kW

>600 kW

Global Rail Transit Permanent Magnet Synchronous Motor Market, Segmentation by Application:

Urban Rail (Subway)

High Speed Rail

Traditional Train

Others

Companies Profiled:

CRRC Zhuzhou Electric

ABB

Alstom

Siemens

Toshiba

VEM Group

Hitachi

Skoda Transportation

Key Questions Answered

1. How big is the global Rail Transit Permanent Magnet Synchronous Motor market?
2. What is the demand of the global Rail Transit Permanent Magnet Synchronous Motor market?
3. What is the year over year growth of the global Rail Transit Permanent Magnet Synchronous Motor market?
4. What is the total value of the global Rail Transit Permanent Magnet Synchronous Motor market?
5. Who are the Major Players in the global Rail Transit Permanent Magnet Synchronous Motor market?
6. What are the growth factors driving the market demand?

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