

Global Rail Transit Permanent Magnet Synchronous Motor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Rail Transit Permanent Magnet Synchronous Motor market size was valued at US\$ 122 million in 2025 and is forecast to a readjusted size of US\$ 167 million by 2032 with a CAGR of 3.1% during review period.

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 is a detailed and comprehensive analysis for global Rail Transit Permanent Magnet Synchronous Motor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Rail Transit Permanent Magnet Synchronous Motor market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Rail Transit Permanent Magnet Synchronous Motor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Rail Transit Permanent Magnet Synchronous Motor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Rail Transit Permanent Magnet Synchronous Motor market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Rail Transit Permanent Magnet Synchronous Motor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Rail Transit Permanent Magnet Synchronous Motor market based on the following parameters - company overview, sales quantity, revenue, 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.

Rail Transit Permanent Magnet Synchronous Motor market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

Surface Mount Permanent Magnet Motor

Embedded Permanent Magnet Motor

Market segment by Cooling Method

Natural Cooling

Forced Air Cooling

Liquid Cooling

Oil Cooling

Market segment by Power

<150 kW

150–300 kW

300–600 kW

>600 kW

Market segment by Application

Urban Rail (Subway)

High Speed Rail

Traditional Train

Others

Major players covered

CRRC Zhuzhou Electric

ABB

Alstom

Siemens

Toshiba

VEM Group

Hitachi

Skoda Transportation

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Rail Transit Permanent Magnet Synchronous Motor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Rail Transit Permanent Magnet Synchronous Motor, with price, sales quantity, revenue, and global market share of Rail Transit Permanent Magnet Synchronous Motor from 2021 to 2026.

Chapter 3, the Rail Transit Permanent Magnet Synchronous Motor competitive

situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Rail Transit Permanent Magnet Synchronous Motor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Rail Transit Permanent Magnet Synchronous Motor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Rail Transit Permanent Magnet Synchronous Motor.

Chapter 14 and 15, to describe Rail Transit Permanent Magnet Synchronous Motor sales channel, distributors, customers, research findings and conclusion.

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