

Global Cast Aluminum Rotor Induction Motor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Cast Aluminum Rotor Induction Motor market size is expected to reach \$ 236 million by 2032, rising at a market growth of 4.3% CAGR during the forecast period (2026-2032).

In 2025, the production volume of cast aluminum rotor induction motors is projected to reach 238,700 units, with an average selling price of \$720 per unit. The global annual production capacity for cast aluminum rotor induction motors stands at approximately 400,000 units, with a gross margin of approximately 32.6%. The cast aluminum rotor induction motor is a variant of the induction motor in which the rotor is formed by casting aluminum?typically utilizing a cast aluminum core (i.e., an aluminum alloy rotor). Compared to traditional squirrel-cage rotors (which consist of steel core laminations combined with copper or aluminum bars), cast aluminum rotors exhibit distinct differences in terms of manufacturing processes, material costs, and certain performance characteristics. The upstream raw materials for cast aluminum rotor induction motors include cast aluminum rotors, steel, surface treatment agents, coating materials, and other components. The midstream segment comprises the manufacturers of these cast aluminum rotor induction motors, while the downstream market is primarily concentrated in industries such as chemicals, electric power, and automotive manufacturing.

The market for cast-aluminum rotor induction motors is characterized by a trend of diversified development, finding extensive application across sectors such as new energy vehicles, industrial automation, and home appliances. Driven by the rapid expansion of the new energy vehicle industry, cast-aluminum rotor induction motors have emerged as a key choice for traction motors?thanks to advantages such as low cost, light weight, and mature manufacturing processes?with demand showing

particularly strong growth in dual-motor configurations for high-end vehicle models. In the industrial sector, their reliability and cost-effectiveness have led to their widespread adoption in general-purpose machinery, including fans, water pumps, and conveyor systems. Meanwhile, within the home appliance market—a sector highly sensitive to cost—cast-aluminum rotor induction motors have become the standard configuration. However, in scenarios demanding high efficiency, heavy-duty performance, or operation under high-temperature conditions, copper-bar rotor induction motors retain a distinct advantage; consequently, the two types serve as complements to one another across different application contexts. The overall market, propelled by technological advancements, environmental policies, and industrial demand, demonstrates a trend of steady growth, yet it continues to face challenges such as fluctuating raw material prices and technological competition.

This report studies the global Cast Aluminum Rotor Induction Motor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cast Aluminum Rotor Induction 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 Cast Aluminum Rotor Induction Motor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cast Aluminum Rotor Induction Motor total production and demand, 2021-2032, (Units)

Global Cast Aluminum Rotor Induction Motor total production value, 2021-2032, (USD Million)

Global Cast Aluminum Rotor Induction Motor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Cast Aluminum Rotor Induction Motor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Cast Aluminum Rotor Induction Motor domestic production, consumption, key domestic manufacturers and share

Global Cast Aluminum Rotor Induction Motor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Cast Aluminum Rotor Induction Motor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Cast Aluminum Rotor Induction Motor production by Application, production,

value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Cast Aluminum Rotor Induction 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 ABB, Toshiba, Regal Rexnord, Siemens, TECO, WOLONG, Enpower, INOVANCE Automotive, HENGDA MOTOR, SEC Electric Machinery, 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 Cast Aluminum Rotor Induction Motor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Cast Aluminum Rotor Induction Motor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cast Aluminum Rotor Induction Motor Market, Segmentation by Type:

Single-Phase

Three-Phase

Global Cast Aluminum Rotor Induction Motor Market, Segmentation by Shell Structure and Protection Level:

Enclosed

Protective

Sealed

Global Cast Aluminum Rotor Induction Motor Market, Segmentation by Energy Efficiency Rating:

IE1

IE2

IE3

IE4

Global Cast Aluminum Rotor Induction Motor Market, Segmentation by Working System:

Continuous

Short-Term

Global Cast Aluminum Rotor Induction Motor Market, Segmentation by Application:

New Energy Vehicles

Industrial

Others

Companies Profiled:

ABB

Toshiba

Regal Rexnord

Siemens

TECO

WOLONG

Enpower

INOVANCE Automotive

HENGDA MOTOR

SEC Electric Machinery

Xinzhi

Key Questions Answered:

1. How big is the global Cast Aluminum Rotor Induction Motor market?
2. What is the demand of the global Cast Aluminum Rotor Induction Motor market?
3. What is the year over year growth of the global Cast Aluminum Rotor Induction Motor market?

4. What is the production and production value of the global Cast Aluminum Rotor Induction Motor market?
5. Who are the key producers in the global Cast Aluminum Rotor Induction Motor market?
6. What are the growth factors driving the market demand?

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