

Global Alternating Current Series Motors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Alternating Current Series Motors market size is expected to reach \$ 4038 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

In 2025, global Alternating Current Series Motor production reached approximately 646.92 M Units, with an average global market price of around 4.28 USD per Unit.

An alternating current series motor (AC series motor) is a single-phase motor that can be driven by either alternating current (AC) or direct current (DC), hence it is also called a universal motor. AC series motors are always driven by AC power. When energized, the enameled wires wound around the stator core generate an electromagnetic field. The rotor's energized conductors, connected in series with the stator windings via a commutator, experience an Ampere force in this electromagnetic field, generating a torque that drives the rotor to rotate.

Alternating current series motors have high starting torque and good low-speed performance. Driven by AC power, they are commonly used in electrical appliances requiring high power, high starting and low-speed torque, and powered by AC, such as high-powered corded vacuum cleaners and other household appliances, as well as power tools.

Alternating Current Series Motors, with their unique advantages of high starting torque, wide speed range, and AC/DC compatibility, precisely address the core pain points of power drive in numerous scenarios. Their powerful starting performance perfectly suits the needs of power tools and small traction equipment requiring instantaneous heavy-load starting, solving the problem of weak starting performance common in ordinary

motors. Their flexible speed control characteristics meet the adaptation requirements of household appliances such as vacuum cleaners and blenders for different operating speeds, compensating for the narrow speed range and insufficient operational stability of traditional motors. Furthermore, their AC/DC compatibility significantly improves the applicability of the equipment in complex power supply environments, lowering the design and application threshold for end products. Currently, the intelligent transformation of global manufacturing is driving the upgrading of demand for industrial automation equipment, while the high-end development of small household appliances and the rise of emerging smart hardware continue to release customized power demands, jointly constituting the core driving force for industry development. With the deep integration of material technology innovation and intelligent control modules, Alternating Current Series Motors will achieve breakthroughs in energy efficiency improvement, noise control and life extension, further consolidating its irreplaceable position in cost-sensitive, short-term, high-intensity operation scenarios. At the same time, it will continue to penetrate emerging fields such as smart homes and light industrial robots, showing stable and broad market growth potential along with the infrastructure construction and consumption upgrade process in emerging global markets.

The main structure of Alternating Current Series Motors includes a fan shroud, impeller, guide vane, support frame, rotor (including bearings, shaft, rotor core and windings, commutator), stator (including stator core and windings), carbon brush assembly, and housing. Downstream applications are primarily with home appliance and power tool manufacturers; typical users include LG, Panasonic, Deerma, and Ecovacs.

The single-line production capacity of Alternating Current Series Motors is significantly affected by factors such as automation level, product specifications, and process complexity, typically ranging from 10 to 20 million units. Industry gross margins are generally between 20% and 30%.

This report studies the global Alternating Current Series Motors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Alternating Current Series Motors 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 Alternating Current Series Motors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Alternating Current Series Motors total production and demand, 2021-2032, (K Units)

Global Alternating Current Series Motors total production value, 2021-2032, (USD Million)

Global Alternating Current Series Motors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Alternating Current Series Motors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Alternating Current Series Motors domestic production, consumption, key domestic manufacturers and share

Global Alternating Current Series Motors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Alternating Current Series Motors production by Power, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Alternating Current Series Motors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Alternating Current Series Motors 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 Nidec, Ametek, Domel, WAMEL Silniki Elektryczne, Suzhou Industrial Park CINDERSON Motor, ZHOUSHAN CHENGUANG ELECTIRC APPLIANCE, KELI MOTOR GROUP, KingClean Electric, Ningbo Fujia Industrial, Foshan City Shunde Lungkai micro-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 Alternating Current Series Motors 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 Power, 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 Alternating Current Series Motors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Alternating Current Series Motors Market, Segmentation by Power:

Below 500W

500-1000W

Above 1000W

Global Alternating Current Series Motors Market, Segmentation by Diameter:

Below 50mm

50-100mm

Above 100mm

Global Alternating Current Series Motors Market, Segmentation by Rated Speed:

Below 15000rpm

15000-20000rpm

Above 20000rpm

Global Alternating Current Series Motors Market, Segmentation by Application:

Vacuum Cleaner

Blender

Meat grinder

Hair Dryer

Others

Companies Profiled:

Nidec

Ametek

Domel

WAMEL Silniki Elektryczne

Suzhou Industrial Park CINDERSON Motor

ZHOUSHAN CHENGUANG ELECTIRC APPLIANCE

KELI MOTOR GROUP

KingClean Electric

Ningbo Fujia Industrial

Foshan City Shunde Lungkai micro-motor

SHENZHEN POWER MOTOR INDUSTRIAL

Chiaphua Components Group

Hunan Fenghui Motor

Dongguan Honlite Industrial

Guangdong Chaoniu Motor

Key Questions Answered:

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

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