

Global Single-phase Commutator Motors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G56E72C43E3AEN.html>

Date: January 2026

Pages: 107

Price: US\$ 3,480.00 (Single User License)

ID: G56E72C43E3AEN

Abstracts

According to our (Global Info Research) latest study, the global Single-phase Commutator Motors market size was valued at US\$ 2853 million in 2025 and is forecast to a readjusted size of US\$ 4038 million by 2032 with a CAGR of 5.1% during review period.

In 2025, global Single-phase Commutator Motor production reached approximately 612.87 M Units, with an average global market price of around 4.07 USD per Unit.

An Single-phase Commutator 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.

Single-phase Commutator 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.

Single-phase Commutator 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, Single-phase Commutator 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 Single-phase Commutator 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 Single-phase Commutator 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 is a detailed and comprehensive analysis for global Single-phase Commutator Motors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Power 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 Single-phase Commutator Motors market size and forecasts, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/Unit), 2021-2032

Global Single-phase Commutator Motors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/Unit), 2021-2032

Global Single-phase Commutator Motors market size and forecasts, by Power and by Application, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/Unit), 2021-2032

Global Single-phase Commutator Motors market shares of main players, shipments in revenue (\$ Million), sales quantity (M Units), and ASP (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 Single-phase Commutator Motors

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 Single-phase Commutator Motors 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 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.

Market Segmentation

Single-phase Commutator Motors market is split by Power and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and

forecasts for consumption value by Power, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Power

Below 500W

500-1000W

Above 1000W

Market segment by Diameter

Below 50mm

50-100mm

Above 100mm

Market segment by Rated Speed

Below 15000rpm

15000-20000rpm

Above 20000rpm

Market segment by Application

Vacuum Cleaner

Blender

Meat grinder

Hair Dryer

Others

Major players covered

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

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Single-phase Commutator Motors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Single-phase Commutator Motors, with price, sales quantity, revenue, and global market share of Single-phase Commutator Motors from 2021 to 2026.

Chapter 3, the Single-phase Commutator Motors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Single-phase Commutator Motors 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 Power and by Application, with sales market share and growth rate by Power, 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 Single-phase Commutator Motors market forecast, by regions, by Power, 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 Single-phase Commutator Motors.

Chapter 14 and 15, to describe Single-phase Commutator Motors sales channel,

distributors, customers, research findings and conclusion.

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