

Global External Rotor Brushless DC Motor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G828CB3061AAEN.html>

Date: July 2026

Pages: 110

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

ID: G828CB3061AAEN

Abstracts

According to our (Global Info Research) latest study, the global External Rotor Brushless DC Motor market size was valued at US\$ million in 2025 and is forecast to a readjusted size of US\$ million by 2032 with a CAGR of %during review period.

An external-rotor brushless DC motor is a motor powered by a DC power supply, with the rotor located outside the motor and the stator located inside the motor. Compared with traditional brushed DC motors, external rotor brushless DC motors do not require brushes to make contact with the brushes, so they have higher efficiency, lower noise and longer life. The external rotor brushless DC motor consists of a stator and a rotor. There are several coils wound around the stator, which are excited by current to generate a magnetic field. There are permanent magnets on the rotor. When the stator magnetic field interacts with the rotor magnetic field, torque is generated, causing the rotor to rotate. The external rotor brushless DC motor uses an electronic commutator (also called a driver or controller) to control the direction and magnitude of the current to achieve the rotation of the motor. The electronic commutator controls the direction and magnitude of current based on rotor position and speed, allowing the motor to operate with high efficiency and precise control. External rotor brushless DC motors have many advantages, including high efficiency, high torque density, fast dynamic response, low noise, long life and reliability.

This report is a detailed and comprehensive analysis for global External Rotor Brushless DC 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 External Rotor Brushless DC Motor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global External Rotor Brushless DC Motor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global External Rotor Brushless DC Motor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global External Rotor Brushless DC Motor market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 External Rotor Brushless DC 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 External Rotor Brushless DC 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 Nidec Corporation, ebm-papst, Portescap S.A., Nanotec Electronic GmbH & Co. KG, Powertronic Drive Systems GmbH, Constar Motion Co., LTD, Changzhou Fulling Motor Co., Ltd, Dongguan Hobiba Technology Co.,Ltd, Shenzhen Topband Co., Ltd, SHINANO KENSHI, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

External Rotor Brushless DC 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 segment by Type

Sensed External Rotor Brushless DC Motor

Inductionless External Rotor Brushless DC Motor

Market segment by Application

Industrial

Automobile Industry

Medical Industry

Aerospace Industry

Others

Major players covered

Nidec Corporation

ebm-papst

Portescap S.A.

Nanotec Electronic GmbH & Co. KG

Powertronic Drive Systems GmbH

Constar Motion Co., LTD

Changzhou Fulling Motor Co., Ltd

Dongguan Hobiba Technology Co.,Ltd

Shenzhen Topband Co., Ltd

SHINANO KENSHI

TM4

ZIEHL-ABEGG

FAULHABER Drive Systems

Ningbo Xinda Group Co., Ltd.

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 External Rotor Brushless DC Motor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of External Rotor Brushless DC Motor, with price, sales quantity, revenue, and global market share of External Rotor Brushless DC Motor from 2021 to 2026.

Chapter 3, the External Rotor Brushless DC Motor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the External Rotor Brushless DC 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 External Rotor Brushless DC 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 External Rotor Brushless DC Motor.

Chapter 14 and 15, to describe External Rotor Brushless DC Motor sales channel, distributors, customers, research findings and conclusion.

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