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Global Brushed Electromagnetic Fan Clutch 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 Brushed Electromagnetic Fan Clutch market size was valued at US$ 702 million in 2025 and is forecast to a readjusted size of US$ 945 million by 2032 with a CAGR of 4.4% during review period.

The brushed electromagnetic fan clutch is a cooling component that controls the engagement and disengagement of the fan from the engine drive shaft via the energization and de-energization of an electromagnetic coil. It utilizes brushes and slip rings to transmit current and drives the fan based on temperature requirements, thereby reducing parasitic engine power loss and improving cooling efficiency. These clutches are commonly used in the cooling systems of engines for commercial vehicles, construction machinery, buses, and agricultural equipment.

Upstream components include electromagnetic coils, brushes, slip rings, bearings, friction discs, springs, aluminum alloy housings, temperature control switches, and wiring harnesses; downstream applications cover cooling systems for heavy-duty trucks, buses, construction machinery, agricultural equipment, and diesel generator sets.

The global market features an average unit price of $195, with sales volume of approximately 3.5 million units, an annual production capacity of about 4.5 million units, and an industry profit margin of around 15%.

The global market is expected to evolve through a combination of replacement demand for the existing installed base and technological upgrades. Due to their mature design,

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lower costs, and ease of maintenance, brushed electromagnetic fan clutches continue to see stable demand in traditional diesel commercial vehicles and off-road machinery. However, driven by stricter requirements for energy conservation, emission reduction, noise control, and intelligent thermal management, products are evolving toward faster response times, superior wear resistance, extended brush service life, and more precise temperature control. Simultaneously, competition from brushless electromagnetic clutches, electric fans, and intelligent cooling modules is exerting pressure for substitution, compelling manufacturers to optimize materials, sealing structures, and control strategies.

This report is a detailed and comprehensive analysis for global Brushed Electromagnetic Fan Clutch 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 Brushed Electromagnetic Fan Clutch market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Brushed Electromagnetic Fan Clutch 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 Brushed Electromagnetic Fan Clutch 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 Brushed Electromagnetic Fan Clutch 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

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To assess the growth potential for Brushed Electromagnetic Fan Clutch

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 Brushed Electromagnetic Fan Clutch 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 Kit Masters, Kendrion, Warner Electric, Horton Holding, Weichai Power, Hayden, Ogura Industrial, LIcOS Trucktec (Concentric Engines), American Cooling Systems, Aisin, etc.

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

Market Segmentation

Brushed Electromagnetic Fan Clutch 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

12V

24V

48V

Market segment by Engagement Type

Single-Stage Engagement

Two-Stage Engagement

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Multi-Stage Engagement

Proportional Engagement

Market segment by Control Method

On/Off Control

Temperature Switch Control

ECU-Controlled

PWM Control

Manual Override Control

Market segment by Application

Truck Engine

Bus Engine

Construction Machinery

Agricultural Machinery

Generator Set

Major players covered

Kit Masters

Kendrion

Warner Electric

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Horton Holding

Weichai Power

Hayden

Ogura Industrial

LIcOS Trucktec (Concentric Engines)

American Cooling Systems

Aisin

Xuelong Group

Nissens

Unicent

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 Brushed Electromagnetic Fan Clutch product scope, market

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overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Brushed Electromagnetic Fan Clutch, with price, sales quantity, revenue, and global market share of Brushed Electromagnetic Fan Clutch from 2021 to 2026.

Chapter 3, the Brushed Electromagnetic Fan Clutch competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Brushed Electromagnetic Fan Clutch 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 Brushed Electromagnetic Fan Clutch 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 Brushed Electromagnetic Fan Clutch.

Chapter 14 and 15, to describe Brushed Electromagnetic Fan Clutch sales channel, distributors, customers, research findings and conclusion.

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Contents

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2 MANUFACTURERS PROFILES

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3 COMPETITIVE ENVIRONMENT: BRUSHED ELECTROMAGNETIC FAN CLUTCH BY MANUFACTURER

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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