

Global Brushed Electromagnetic Fan Clutch Market Growth 2026-2032

<https://marketpublishers.com/r/G8F434ACACAEEN.html>

Date: July 2026

Pages: 115

Price: US\$ 3,660.00 (Single User License)

ID: G8F434ACACAEEN

Abstracts

The global Brushed Electromagnetic Fan Clutch market size is predicted to grow from US\$ 668 million in 2025 to US\$ 913 million in 2032; it is expected to grow at a CAGR of 4.7% from 2026 to 2032.

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, 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.

LP Information, Inc. (LPI) ' newest research report, the "Brushed Electromagnetic Fan Clutch Industry Forecast" looks at past sales and reviews total world Brushed Electromagnetic Fan Clutch sales in 2025, providing a comprehensive analysis by region and market sector of projected Brushed Electromagnetic Fan Clutch sales for 2026 through 2032. With Brushed Electromagnetic Fan Clutch sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Brushed Electromagnetic Fan Clutch industry.

This Insight Report provides a comprehensive analysis of the global Brushed Electromagnetic Fan Clutch landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Brushed Electromagnetic Fan Clutch portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Brushed Electromagnetic Fan Clutch market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Brushed Electromagnetic Fan Clutch and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Brushed Electromagnetic Fan Clutch.

This report presents a comprehensive overview, market shares, and growth opportunities of Brushed Electromagnetic Fan Clutch market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

12V

24V

48V

Segmentation by Engagement Type:

Single-Stage Engagement

Two-Stage Engagement

Multi-Stage Engagement

Proportional Engagement

Segmentation by Control Method:

On/Off Control

Temperature Switch Control

ECU-Controlled

PWM Control

Manual Override Control

Segmentation by Application:

Truck Engine

Bus Engine

Construction Machinery

Agricultural Machinery

Generator Set

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Kit Masters

Kendrion

Warner Electric

Horton Holding

Weichai Power

Hayden

Ogura Industrial

LlcOS Trucktec (Concentric Engines)

American Cooling Systems

Aisin

Xuelong Group

Nissens

Unicent

Key Questions Addressed in this Report

What is the 10-year outlook for the global Brushed Electromagnetic Fan Clutch market?

What factors are driving Brushed Electromagnetic Fan Clutch market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Brushed Electromagnetic Fan Clutch market opportunities vary by end market size?

How does Brushed Electromagnetic Fan Clutch break out by Type, by Application?

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