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Automotive Power Window Motor Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 to 2032

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Abstracts

The Global Automotive Power Window Motor Market, valued at USD 8.8 billion in 2023, is set to experience steady growth, with a projected compound annual growth rate (CAGR) of 4.8% from 2024 to 2032. The rising vehicle production in emerging economies significantly boosts the demand for automotive components, including power window motors. As incomes rise in developing countries, more consumers opt for vehicles equipped with modern features like power windows, contributing to the increased demand for these motors.

In today's market, consumers expect greater comfort and convenience, even in entry-level and mid-range vehicles. Power windows have replaced manual cranks, offering a more convenient and efficient system. Automakers are responding by incorporating power windows across a wide range of vehicles to meet consumer preferences, ensuring a steady demand for power window motors.

The market is primarily divided into three motor types: DC brushless motors, DC brushed motors, and stepper motors. DC brushed motors dominated the market in 2023, accounting for over 65% of the share. These motors are favored due to their durability and low maintenance requirements, making them ideal for automotive applications. In particular, advancements in materials for brushes and commutators, along with improved heat dissipation systems, are increasing the lifespan of these motors. Manufacturers are investing in these technologies to meet the growing demand for reliable and long-lasting window systems.

The automotive power window motor market is also categorized based on window types: standard, sunroof, and convertible. The standard window segment is projected to

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exceed USD 9.1 billion by 2032. Anti-pinch technology, a safety feature that stops or reverses the window if an obstruction is detected, has become a common inclusion in power windows. This feature enhances passenger safety and ensures compliance with global safety standards, leading to wider adoption across various vehicle segments.

The development of smaller, more efficient power window motors has further increased their appeal. These high-performance motors not only consume less power, extending battery life in traditional vehicles and electric vehicles but also provide quieter, smoother operation for an improved user experience. In particular, the demand for energy-efficient components has driven innovations in motor designs, with a focus on lightweight materials that enhance overall vehicle performance.

In 2023, China held a significant portion of the automotive power window motor market, with a share of 40%. The country’s rapid adoption of electric vehicles (EVs) and growing middle class are key factors fueling the demand for advanced power window systems. As Chinese consumers increasingly seek luxury vehicles, manufacturers are focusing on developing quieter, more efficient power window motors with advanced features like anti-pinch technology to meet their evolving needs.

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Contents

Report Content

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