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Automotive Dual Mass Flywheel Market Forecasts to 2032 – Global Analysis By Vehicle Type (Passenger Cars, Light Commercial Vehicles (LCVs), Heavy Commercial Vehicles (HCVs) and Off-Highway Vehicles), Material, Engine Type, Transmission Type, Clutch Type, Sales Channel, Application and By Geography

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Abstracts

According to Stratistics MRC, the Global Automotive Dual Mass Flywheel Market is accounted for $6.32 billion in 2025 and is expected to reach $9.14 billion by 2032 growing at a CAGR of 5.4% during the forecast period. The dual mass flywheel is an essential automotive part that minimizes engine vibrations and improves driving comfort. It features two interconnected flywheels with springs that absorb torsional shocks before transferring power to the gearbox. This system reduces drivetrain stress, decreases gear noise, and extends the lifespan of transmission components. Especially useful in high-torque or diesel engines, it ensures smoother operation during low-speed driving and gear shifts. While it is more complex and expensive than conventional flywheels, its ability to enhance ride quality and protect drivetrain elements makes it an important component in modern vehicles.

According to the International Organization for Standardization (ISO), standards like ISO 1940-1 govern the balancing quality of rotating components, including flywheels. DMFs are engineered to meet these standards to ensure rotational stability and safety in high-speed applications.

Market Dynamics:

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Driver:

Growth in automotive production and vehicle sales

Rising global vehicle production is fueling the dual mass flywheel market. Expanding automotive manufacturing, especially in developing regions, boosts the need for advanced components like DMFs. As more passenger cars, trucks, and SUVs are produced, the demand for flywheels that enhance performance and reduce engine stress grows. Environmental and efficiency regulations further increase DMF adoption, as they contribute to smoother engine functioning and fuel economy. This upward trend in vehicle sales worldwide is a significant factor driving market growth, prompting manufacturers and suppliers to innovate and scale production to satisfy increasing demand.

Restraint:

High cost of dual mass flywheels

The expensive nature of dual mass flywheels limits their market growth. Being more intricate than traditional flywheels, DMFs require advanced materials and precise engineering, resulting in higher production costs. This makes them less appealing to budget-focused manufacturers and consumers, particularly in emerging regions. Maintenance and replacement costs are also substantial, restricting their use in cost-sensitive vehicles. Although DMFs provide smoother driving and protect the drivetrain, their high price acts as a barrier to broader adoption, posing a major challenge to market expansion and affordability in both passenger and commercial automotive segments.

Opportunity:

Growing adoption of high-torque and diesel vehicles

Rising demand for diesel and high-torque vehicles offers strong growth prospects for the dual mass flywheel market. DMFs are ideal for managing torsional vibrations, improving smoothness, lowering noise, and protecting transmission systems. With increasing global preference for SUVs, trucks, and fuel-efficient diesel models, dual mass flywheels are becoming a necessity. Automakers are likely to adopt DMFs in more vehicles to enhance ride quality and extend drivetrain life. This shift provides opportunities for manufacturers and suppliers to innovate, scale production, and secure

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a larger share of the automotive components market, capitalizing on the growing adoption of high-performance and diesel-powered vehicles globally.

Threat:

Competition from conventional single-mass flywheels

Single-mass flywheels remain a major threat to the dual mass flywheel market because they are cheaper and simpler to manufacture. Budget-conscious automakers often favor SMFs for entry-level vehicles to reduce costs. Although DMFs offer better vibration absorption and driving comfort, their higher price and maintenance expenses make SMFs more appealing in cost-sensitive markets. Continuous improvements in SMF materials and design are also bridging performance differences, enabling them to satisfy basic vibration control needs. This competitive pressure limits the adoption of dual mass flywheels, especially in smaller vehicles and price-driven regions, constraining market growth and slowing broader implementation.

Covid-19 Impact:

The COVID-19 outbreak caused major disruptions in the dual mass flywheel market, primarily due to halted production, supply chain delays, and lower vehicle output worldwide. Lockdowns slowed the manufacturing and distribution of vehicles and DMF components, while consumer purchases of new vehicles declined sharply. Shortages of raw materials and logistical obstacles further increased costs and extended delivery times. Although automotive production has gradually resumed, the pandemic exposed weaknesses in global supply chains and reliance on interconnected manufacturing networks. This period emphasized the importance of enhancing operational resilience and strategic planning to mitigate similar challenges in the future for the dual mass flywheel market.

The passenger cars segment is expected to be the largest during the forecast period

The passenger cars segment is expected to account for the largest market share during the forecast period. This is due to the extensive use of DMFs in passenger vehicles, which help mitigate engine vibrations, enhance driving comfort, and boost fuel efficiency. Passenger cars account for a substantial share of global vehicle production and exhibit higher adoption rates of advanced drivetrain technologies like DMFs. Rising consumer preference for smoother driving experiences and stringent emission standards further drive the incorporation of DMFs in this segment. As a result,

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passenger cars continue to be the primary driver of growth and revenue in the automotive DMF market.

The aluminum segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the aluminum segment is predicted to witness the highest growth rate. This trend is attributed to the automotive industry's increasing focus on reducing vehicle weight to improve fuel economy and meet stringent emission standards. Aluminum alloys are preferred for their lightweight properties and sufficient strength, making them suitable for DMF applications. Ongoing developments in aluminum alloy formulations and processing methods are enhancing their performance and affordability. With the automotive sector's shift towards more sustainable and efficient solutions, the demand for aluminum alloy-based dual mass flywheels is expected to rise significantly.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share. This leadership is attributed to the substantial vehicle production in countries like China, India, and Japan, which are prominent players in the global automotive industry. The escalating automotive sales in these nations further fuel the demand for DMFs. Moreover, the growing inclination towards advanced automotive technologies and the increasing consumer desire for vehicles offering superior performance and comfort contribute significantly to the rising demand for dual mass flywheels in the Asia Pacific market.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR. Factors such as the increasing demand for fuel-efficient vehicles, technological advancements in the automotive industry, and the widespread use of manual transmission systems in countries like China and India are driving this expansion. The region's robust automotive manufacturing sector and high vehicle production rates further bolster market growth. Moreover, the rising consumer demand for vehicles that offer improved driving comfort and lower emissions is accelerating the adoption of dual mass flywheels in the Asia Pacific automotive market.

Key players in the market

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Some of the key players in Automotive Dual Mass Flywheel Market include AISIN SEIKI, American Axle & Manufacturing, AMS Automotive, AmTech International, EXEDY Globalparts Inc, JMT Auto, Lavacast, Linamar Corporation, LuK GmbH & Co. KG, Platinum Driveline, Schaeffler, Skyway Precision, Tilton Engineering, Valeo and ZF Friedrichshafen.

Key Developments:

In February 2025, American Axle & Manufacturing Holdings, Inc. has announced the successful syndication of the bridge financing to support the announced Combination with the Dowlais Group plc (Dowlais). Prior to the Combination announcement, J.P. Morgan had exclusively underwritten the committed financing to support AAM's requirements in connection with the Combination.

In January 2025, Linamar Corporation announced that it has reached agreements with both the Canadian Government and the Ontario Provincial Government on an investment program that will see the company heavily invest in technologies and manufacturing capabilities in preparation for the future of Mobility. Together the 3 parties are committing to an overall investment of approximately $1.1B that will protect nearly 10,000 existing jobs and create over 2,300 new jobs in the Ontario automotive manufacturing sector.

In March 2024, Schaeffler and Vitesco Technologies entered into a merger agreement, following the approval of their respective Supervisory Boards. The agreement sets out the legally binding terms and conditions for the merger of Vitesco Technologies Group AG into Schaeffler AG. The previously published preliminary exchange ratio of 5 to 57 was confirmed as binding in the signed agreement.

Vehicle Types Covered:

- Passenger Cars
- Light Commercial Vehicles (LCVs)
- Heavy Commercial Vehicles (HCVs)
- Off-Highway Vehicles

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Materials Covered:

- Steel
- Aluminium
- Composite
- Cast Iron

Engine Types Covered:

- Diesel
- Petrol
- Hybrid
- Electric

Transmission Types Covered:

- Manual Transmission
- Automatic Transmission
- Semi-Automatic Transmission

Clutch Types Covered:

- Single Clutch
- Dual Clutch
- Multi-Clutch Systems

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Sales Channels Covered:

- Direct Sales
- Distributor/Dealer Sales
- Online Retail
- Offline Retail

Applications Covered:

- Original Equipment Manufacturer (OEM)
- Aftermarket

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain

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- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia
- UAE
- Qatar
- South Africa

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Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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