

Passenger Cars Flywheel Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Flywheel Type (Single Mass, Dual Mass), By Material Type (Cast Iron, Steel, Aluminium), By Transmission Type (Manual, Automatic), By Region & Competition, 2021-2031F

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Abstracts

The Global Passenger Cars Flywheel Market will grow from USD 3.69 Billion in 2025 to USD 5.49 Billion by 2031 at a 6.85% CAGR. A passenger car flywheel is a rotating mechanical device mounted on the engine crankshaft to store rotational energy, thereby reducing vibration and ensuring smooth power transfer to the transmission.

Key Market Drivers

The increasing global manufacturing and sales of passenger vehicles act as a fundamental driver for the flywheel market. As automotive OEMs ramp up production to meet rising mobility needs in developing nations, the procurement of essential drivetrain components, including flywheels, rises proportionally. This volume-based growth is particularly evident in major Asian markets where internal combustion engine vehicles remain dominant, ensuring a steady baseline of orders for component suppliers.

Key Market Challenges

The widespread transition toward battery electric vehicles constitutes a structural impediment to the global passenger car flywheel market. Unlike internal combustion engine vehicles, which rely on flywheels to smooth out engine pulsations and store rotational energy, battery electric vehicles utilize motors that deliver consistent power

without these mechanical intermediaries.

Key Market Trends

Manufacturers are increasingly shifting from traditional cast iron to advanced lightweight materials, such as aluminum alloys and carbon fiber-reinforced polymers, to enhance engine responsiveness and reduce rotational inertia. This transition is critical for meeting stringent fuel economy standards without compromising vehicle performance, as lighter flywheels significantly improve throttle response in modern powertrains. The material supply chain is robustly supporting this shift, ensuring consistent availability of high-grade alloys for component production.

Key Market Players

Schaeffler AG

American Axle & Manufacturing, Inc.

AISIN SEIKI Co., Ltd

Linamar Corporation

ZF Friedrichshafen AG

Valeo SA

Luthra Industrial Corp

Skyway Precision, Inc.

Ford Motor Company

Ijjin

Report Scope:

In this report, the Global Passenger Cars Flywheel Market has been segmented into the following categories, in addition to the industry trends which have also been detailed

below:

Passenger Cars Flywheel Market, By Flywheel Type:

Single Mass

Dual Mass

Passenger Cars Flywheel Market, By Material Type:

Cast Iron

Steel

Aluminium

Passenger Cars Flywheel Market, By Transmission Type:

Manual

Automatic

Passenger Cars Flywheel Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Passenger Cars Flywheel Market.

Available Customizations:

Global Passenger Cars Flywheel Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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