

# **Dual Clutch Transmission Market Forecasts to 2034 – Global Analysis By Vehicle Type (Passenger Cars, Commercial Vehicles, Sports Utility Vehicles (SUVs) and Other Vehicle Types), Clutch Type (Dry and Wet), Powertrain Type, Transmission, Sales Channel, Technology and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Dual Clutch Transmission Market is accounted for \$46.22 billion in 2026 and is expected to reach \$78.83 billion by 2034 growing at a CAGR of 6.9% during the forecast period. Dual Clutch Transmission is an automotive transmission technology that incorporates two separate clutches for seamless and rapid shifting between gears. Operating as two independent manual transmissions, DCT allows for pre-selecting the next gear, minimizing gear change lag and improving fuel efficiency. Found in a range of vehicles, dual clutch transmission offers a balance between the efficiency of manual transmissions and the convenience of automatic transmissions, providing drivers with a responsive and engaging driving experience.

According to the JSTOR report, dual clutch transmissions provide full shift comfort of traditional step automatics with 15% better fuel efficiency than manual transmissions when compared to planetary ATs.

### **Market Dynamics:**

#### **Driver:**

Growing demand for automatic transmissions

Dual clutch transmissions are growing in popularity due to their improved efficiency and smoother gear changes as consumers choose automatic transmissions for their convenience. This pattern supports the industry's transition to more sophisticated gearboxes, which encourages the use of DCTs in a wider range of car classes. The inherent advantages of DCTs, such as improved fuel efficiency and enhanced driving experience, position them favourably in meeting the rising consumer demand for automatic transmissions, contributing to the market's sustained growth.

**Restraint:****Complexity & maintenance**

The intricate design of DCTs, with multiple clutches and electronic components, contributes to higher manufacturing costs and increased susceptibility to maintenance issues. Consumers are concerned about potential reliability issues and elevated repair costs. The intricate nature of DCTs may also pose a challenge for technicians during repairs and routine maintenance, impacting overall vehicle ownership experience. These complexities and maintenance concerns, thus impedes the broader market adoption of DCTs.

**Opportunity:****Increasing consumer preference for sporty vehicles**

Dual clutch transmissions are renowned for delivering rapid and seamless gear shifts, enhancing the driving performance crucial for sportier cars. Enthusiasts appreciate the improved acceleration, responsiveness, and overall dynamic driving experience offered by DCT-equipped vehicles. As automakers respond to this demand, integrating DCTs into their sporty vehicle models, the market experiences a surge in adoption. This alignment with consumer preferences for high-performance and sporty driving contributes significantly to the expansion and success of the dual clutch transmission market.

**Threat:****Durability concerns**

Durability concerns with dual clutch transmissions center around potential issues related to the complex nature of these systems. Some consumers worry about long-term

reliability, particularly in heavy-duty applications or challenging driving conditions. Reports of overheating and maintenance complexities also raise questions about DCT durability. These concerns can hinder market growth as they contribute to hesitancy among consumers, impacting overall adoption rates.

### Covid-19 Impact

The covid-19 pandemic disrupted the dual clutch transmission market as it led to production halts, supply chain disruptions, and reduced consumer spending on non-essential items, including automobiles. Automotive manufacturers faced challenges in maintaining production schedules, impacting the availability of DCT-equipped vehicles. Additionally, the economic uncertainty prompted a decline in consumer purchasing power, affecting overall automotive sales. However, as global markets recover and consumer confidence improves, the DCT market is expected to rebound, driven by resurgence in automotive demand and a gradual return to pre-pandemic production levels.

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

The passenger cars segment is estimated to have a lucrative growth. In the realm of passenger cars, Dual Clutch Transmission (DCT) technology has gained prominence for its role in delivering enhanced driving experiences. DCTs are increasingly integrated into passenger cars due to their ability to provide quick and smooth gear shifts, contributing to improved fuel efficiency and performance. As automakers strive to meet consumer demands for advanced transmission systems, the adoption of DCTs in passenger cars continues to rise, shaping the future of automotive technology.

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

The electric powertrain segment is anticipated to witness the highest CAGR growth during the forecast period. Efficiency is increased when electric powertrains are combined with DCT technology. Electric DCTs provide seamless gear changes and optimize power distribution in electrified vehicles, contributing to improved performance and range. This integration aligns with the industry's efforts to enhance EV drivetrain technologies, offering consumers a compelling blend of advanced transmission features and electric propulsion, thereby influencing the evolution of the automotive market toward more sustainable and high-performance solutions.

**Region with largest share:**

Asia Pacific is projected to hold the largest market share during the forecast period. The dual clutch transmission market in the Asia-Pacific (APAC) region has exhibited significant growth and transformative trends. The automotive industry in countries like China, Japan, South Korea, and India has witnessed a surge in demand for advanced transmission technologies, with DCTs gaining prominence. The increasing preference for automatic transmissions, driven by the rising urbanization, traffic congestion, and a shift toward more convenient driving experiences, has bolstered the adoption of DCTs in the region.

**Region with highest CAGR:**

Europe is projected to have the highest CAGR over the forecast period, owing to the presence of major market players. The region's diverse landscape, featuring both mass-market and high-end vehicles, contributes to the varied applications of DCTs. Original Equipment Manufacturers (OEMs) are actively integrating DCTs into their vehicle portfolios to meet consumer demands for fuel efficiency and enhanced performance. Further, strategic investments in R&D and marketing to cater to the diverse demands of consumers across the region are fuelling the market growth.

**Key players in the market**

Some of the key players profiled in the Dual Clutch Transmission Market include Allison Transmission, Audi, BorgWarner Inc, Continental AG, Daimler AG, Eaton Corporation, Getrag Corporate Group, Hofer Powertrain, Hyundai, Tata Motors, Magna International Inc, Mercedes, Mitsubishi, Nissan, Porsche, Renault Group, Schaeffler AG & Co. KG, Volkswagen Group, Volvo and ZF Friedrichshafen AG.

**Key Developments:**

In October 2023, Allison Transmission launched the eGen Power® 85S, the newest addition to Allison's family of fully electric axles. In partnership with Anadolu Isuzu, Allison is pleased to present their integrated eGen Power 85S into the Isuzu Novo VOLT fully electric bus showcased at Busworld Europe in Brussels, Belgium.

In March 2022, Tata launched Altroz with dual-clutch automatic transmission and dubbed the variant DCA, launched at Rs 8.1 lakh ex-showroom. It is the world's first DCT with planetary gear arrangement and has 45 patents for innovative features of the

transmission.

Vehicle Types Covered:

Passenger Cars

Commercial Vehicles

Sports Utility Vehicles (SUVs)

Other Vehicle Types

Clutch Types Covered:

Dry

Wet

Powertrain Types Covered:

Conventional Powertrain

Hybrid Powertrain

Electric Powertrain

Other Powertrain Types

Transmissions Covered:

6-Speed DCT

7-Speed DCT

8-Speed DCT

## Other Transmissions

### Sales Channels Covered:

Original Equipment Manufacturers (OEMs)

Aftermarket

Brick-and-Mortar Retail

Distributors & Wholesalers

Other Sales Channels

### Technologies Covered:

Automatic DCT

Semi-Automatic DCT

### Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

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

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 2023, 2024, 2025, 2026, 2027, 2028, 2030, 3032 and 2034
- 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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