

Automotive Transmission Market by Transmission Type (Manual Transmission, Automatic Transmission, CVT, DCT, AMT), Fuel Type, Vehicle Type, Hybrid Vehicle, Two-Wheeler Transmission, Number of Forward Gears and Region - Global Forecast to 2028

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Abstracts

The global automotive transmission market is projected to grow from USD 62.4 billion in 2023 to USD 84.2 billion by 2028 at a CAGR of 6.2%. Governments worldwide are implementing stringent emission regulations, driving the increased adoption of electric and hybrid vehicles to curb greenhouse gas emissions. HEVs and PHEVs are primarily equipped with automatic or CVT transmissions for seamless integration between electric and gasoline propulsion, optimizing efficiency and ensuring smooth transitions. Additionally, these transmissions offer driver comfort and convenience by eliminating the need for manual gear changes and facilitating regenerative braking, thus enhancing the overall driving experience and efficiency.

Ensuring cost-effectiveness and enhancing performance remains a primary concern for transmission system manufacturers. Achieving this balance necessitates R&D investments to incorporate advanced technologies that improve fuel efficiency, drivability, and overall vehicle dynamics. Additionally, managing thermal loads within the transmission system poses a significant challenge, especially with the trend toward high-pressure injector engines and higher power densities, which can lead to increased heat generation.

'Automatic transmission in two-wheeler segment is expected to grow at the highest CAGR during the forecast period.'

With urbanization on the rise, marked by growing traffic congestion and the need for

effortless navigation within cities, the demand for mopeds/scooters and electric two-wheelers is growing. These two-wheelers are equipped with automatic transmissions. In addition, the surge in female ridership is driving demand for automatic transmissions. Furthermore, an aging demographic of motorcyclists with physical limitations or diminishing strength are also the key customers for effortless automatic transmissions. Thus, the automatic transmission facilitates a smoother and more accessible riding experience for a broader audience. In the Asia Pacific region, manual transmissions dominate the two-wheelers market, comprising an estimated 70% of sales in the fiscal year 2020–2021. This trend underscores the enduring preference for manual transmission technology among consumers in the region. For instance, in India, motorcycle sales in 2023 reached 10.2 million units, reflecting a 14% increase from the previous year's figure of 8.9 million units in 2022.

Conversely, the scooter market experienced even stronger growth, with a remarkable 26% increase. This surge indicates a growing demand for automatic transmission vehicles in India, although the current market is predominantly dominated by motorcycles. Electric bikes and scooters are experiencing significant growth in Asia, with China, Japan, and India leading the market. China, in particular, holds the largest market share for e-scooters, driven by stringent environmental regulations and the lower cost of electric vehicles than conventional options. This growth underscores a shift towards sustainable transportation solutions in response to environmental concerns and government initiatives promoting electric mobility. The surge in electric bike and scooter adoption in the Asia-Pacific region is poised to drive the growth of automatic transmissions due to the increasing demand for convenient and efficient urban mobility solutions.

North America is the second-largest market for automotive transmissions.

Vehicle production in North America experienced a notable 13% growth from 2021 to 2023, with a projected increase of 23% by 2028, where the US contributes nearly 67% of the region's total production. Light commercial vehicles (LCVs) hold a significant share, driven by the region's growing small-scale businesses. In the US, SUVs and trucks dominate, with manufacturers investing in advanced transmissions to meet fuel economy standards while prioritizing consumer comfort and convenience. In both the US and Canada, automatic transmissions dominate the vehicle market. They are expected to continue their dominance in the forecasted period alongside the region's overall growth in vehicle production. Automatic transmissions are widespread in US passenger cars due to their early adoption, cultural preference for convenience, and suitability for urban driving. Factors like price parity, limited manual options, and dealer

incentives also contribute to their popularity. However, CVT and DCT transmissions play significant roles, catering to diverse customer preferences. CVT holds a larger and expanding share, particularly in fuel-efficient segments, while DCT remains relevant for performance-oriented vehicles. CVT is expected to maintain a strong market presence, while DCT will continue to hold a significant position due to its preference for high-performance cars. DCTs offer quicker and smoother gear changes than traditional automatics, enhancing acceleration and responsiveness. In conclusion, automatic transmissions and CVT will dominate the market, and automated manual transmission will grow at the fastest CAGR of 11.9% in the forecasted period.

In-depth interviews were conducted with CEOs, marketing directors, other innovation and strategy directors, and executives from various key organizations operating in this market.

By Company Type: Automotive Transmission Providers-70%, Automotive OEMs- 30%

By Designation: C Level - 30%, Directors- 50%, and Others – 20%

By Region: North America-60%, Europe-20%, Asia Pacific-20%,

The key players in the automotive transmission market are Aisin Corporation (Japan), ZF Friedrichshafen AG (Germany), Magna International Inc. (Canada), JATCO Ltd. (Japan), Borgwarner Inc. (US), Eaton Corporation (Ireland), Hyundai Transys (South Korea), Allison transmissions (US), Vitesco Technologies (Germany), Schaeffler AG (Germany), and GKN Automotive (UK). Major companies' key strategies to maintain their position in the global automotive transmission market are strong global networking, mergers and acquisitions, partnerships, and technological advancement.

Research Coverage

The study segments the automotive transmission market by volume and value, based on region (Asia Pacific, Europe, North America, Latin America and Middle East& Africa), By transmission type (Automatic Transmission, Manual Transmission, Automated Manual Transmission, Continuously variable transmission, Dual Clutch Transmission), By Number of forward gears (Up to 5, 6-8, 9-10, Above 10, CVT), vehicle type (PCs, LCVs, Trucks, Buses), Hybrid Electric Vehicles type (Asia Pacific, North America, Europe), By fuel type (Diesel, Gasoline and Alternate Fules), by Two-wheeler

transmission Type (Manual, Automatic).

The study also includes an in-depth competitive analysis of the major automotive transmission manufacturers, their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

Key Benefits of Buying the Report:

The report will help the market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall automotive transmission market and the sub-segments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market's pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Increasing consumer preference for enhanced driving experience and smooth gear shifting, Rising popularity of fuel-efficient cars, Growing demand for lightweight transmission systems, Collaboration of leading auto manufacturers with domestic players), restraints (High adoption cost and frequent maintenance of advanced transmission systems, Volatility in raw material prices), opportunities (Wide acceptance of CVT technology for fuel efficiency and lowering emissions, Increasing adoption of automatic transmissions and development of hybrid drives, Rising demand for electric vehicles, Growing need for transmission fluids in evolving automotive landscape), and challenges (High cost of lightweight and efficient transmissions, Efficient power flow management) influencing the growth of the automotive transmission market.

Product Development/Innovation: Detailed insights on upcoming technologies and new product & service launches in the automotive transmission market.

Market Development: Comprehensive market information – the report analyses the authentication and brand protection market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the automotive

transmission market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Aisin Corporation (Japan), ZF Friedrichshafen AG (Germany), Magna International Inc. (Canada), JATCO Ltd. (Japan), and BorgWarner Inc. (US), among others in automotive transmission market.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.2.1 AUTOMOTIVE TRANSMISSION MARKET DEFINITION AND INCLUSIONS, BY TRANSMISSION TYPE

1.2.1.1 Transmission type

TABLE 1 AUTOMOTIVE TRANSMISSION MARKET DEFINITION AND INCLUSIONS, BY TRANSMISSION TYPE

1.2.2 AUTOMOTIVE TRANSMISSION MARKET DEFINITION AND INCLUSIONS, BY VEHICLE TYPE

1.2.2.1 Vehicle type

TABLE 2 AUTOMOTIVE TRANSMISSION MARKET DEFINITION AND INCLUSIONS, BY VEHICLE TYPE

1.2.2.2 Hybrid electric vehicle type

TABLE 3 AUTOMOTIVE TRANSMISSION MARKET DEFINITION AND INCLUSIONS, BY HYBRID ELECTRIC VEHICLE TYPE

1.2.2.3 Fuel type

TABLE 4 AUTOMOTIVE TRANSMISSION MARKET DEFINITION AND INCLUSIONS, BY FUEL TYPE

1.2.3 INCLUSIONS AND EXCLUSIONS

TABLE 5 INCLUSIONS AND EXCLUSIONS FOR AUTOMOTIVE TRANSMISSION MARKET

1.3 MARKET SCOPE

FIGURE 1 AUTOMOTIVE TRANSMISSION MARKET SEGMENTATION

1.3.1 REGIONS COVERED

1.3.2 YEARS CONSIDERED

1.4 CURRENCY CONSIDERED

TABLE 6 CURRENCY EXCHANGE RATES

1.5 STAKEHOLDERS

1.6 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 AUTOMOTIVE TRANSMISSION MARKET: RESEARCH DESIGN

FIGURE 3 RESEARCH METHODOLOGY MODEL

2.1.1 SECONDARY DATA

2.1.1.1 List of key secondary sources to estimate vehicle production

2.1.1.2 List of key secondary sources to estimate market size

2.1.1.3 Key data from secondary sources

2.1.2 PRIMARY DATA

FIGURE 4 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE, DESIGNATION, AND REGION

2.1.2.1 List of primary participants

2.2 MARKET ESTIMATION METHODOLOGY

FIGURE 5 RESEARCH METHODOLOGY: HYPOTHESIS BUILDING

2.2.1 BOTTOM-UP APPROACH

FIGURE 6 AUTOMOTIVE TRANSMISSION MARKET SIZE: BOTTOM-UP APPROACH (TRANSMISSION TYPE AND REGION)

2.2.2 TOP-DOWN APPROACH

FIGURE 7 AUTOMOTIVE TRANSMISSION MARKET SIZE: TOP-DOWN APPROACH (BY FUEL TYPE)

2.3 RESEARCH DESIGN AND METHODOLOGY

FIGURE 8 AUTOMOTIVE TRANSMISSION MARKET: RESEARCH DESIGN AND METHODOLOGY

FIGURE 9 AUTOMOTIVE TRANSMISSION MARKET: RESEARCH METHODOLOGY ILLUSTRATION OF SUPPLY-SIDE REVENUE ESTIMATION

2.4 RESEARCH LIMITATIONS

2.5 DATA TRIANGULATION

FIGURE 10 DATA TRIANGULATION METHODOLOGY

2.6 FACTOR ANALYSIS

2.7 RECESSION IMPACT ANALYSIS

2.8 RESEARCH ASSUMPTIONS

TABLE 7 RESEARCH ASSUMPTIONS

2.9 RISK ASSESSMENT & RANGES

TABLE 8 RISK ASSESSMENT & RANGES

3 EXECUTIVE SUMMARY

3.1 REPORT SUMMARY

FIGURE 11 AUTOMOTIVE TRANSMISSION MARKET, BY VEHICLE TYPE, 2023 VS. 2028

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN AUTOMOTIVE TRANSMISSION MARKET

FIGURE 12 GROWING DEMAND FOR FUEL-EFFICIENT VEHICLES TO DRIVE MARKET

4.2 AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE

FIGURE 13 AUTOMATIC TRANSMISSION SEGMENT TO LEAD MARKET DURING FORECAST PERIOD

4.3 AUTOMOTIVE TRANSMISSION MARKET, BY VEHICLE TYPE

FIGURE 14 PASSENGER CARS SEGMENT TO LEAD MARKET DURING FORECAST PERIOD

4.4 AUTOMOTIVE TRANSMISSION MARKET, BY FUEL TYPE

FIGURE 15 ALTERNATE FUEL SEGMENT TO GROW AT HIGHEST RATE FROM 2023 TO 2028

4.5 AUTOMOTIVE TRANSMISSION MARKET, BY NUMBER OF FORWARD GEARS

FIGURE 16 UP TO 5 SEGMENT TO LEAD MARKET DURING FORECAST PERIOD

4.6 AUTOMOTIVE TRANSMISSION MARKET FOR HYBRID VEHICLES, BY REGION

FIGURE 17 NORTH AMERICA TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

4.7 AUTOMOTIVE TWO-WHEELER TRANSMISSION MARKET, BY TYPE

FIGURE 18 AUTOMATIC TRANSMISSION SEGMENT TO GROW AT HIGHER RATE THAN MANUAL TRANSMISSION SEGMENT DURING FORECAST PERIOD

4.8 AUTOMOTIVE TRANSMISSION MARKET, BY REGION

FIGURE 19 ASIA PACIFIC TO ACCOUNT FOR LARGEST MARKET SHARE IN 2023

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 20 AUTOMOTIVE TRANSMISSION MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

5.2.1.1 Increasing consumer preference for enhanced driving experience and smooth gear shifting

TABLE 9 COMPARISON BETWEEN AT AND MT SYSTEMS

5.2.1.2 Rising popularity of fuel-efficient cars

TABLE 10 REDUCTION OF FUEL CONSUMPTION AND CO₂ EMISSIONS

5.2.1.3 Growing demand for lightweight transmission systems

TABLE 11 LIGHTWEIGHT MATERIALS FOR MODERN-DAY VEHICLES

5.2.1.4 Collaboration of leading auto manufacturers with domestic players

5.2.2 RESTRAINTS

5.2.2.1 High adoption cost and frequent maintenance of advanced transmission systems

TABLE 12 COST ESTIMATION FOR TRANSMISSION SYSTEMS, DIESEL SEGMENT C, 2025

5.2.2.2 Volatility in raw material prices

TABLE 13 COMMODITY PRICES

5.2.3 OPPORTUNITIES

5.2.3.1 Wide acceptance of CVT technology for fuel efficiency and lowering emissions

5.2.3.2 Increasing adoption of automatic transmissions and development of hybrid drives

TABLE 14 TRANSMISSION TECHNOLOGIES AT DIFFERENT DEVELOPMENT STAGES IN CHINA

5.2.3.3 Rising demand for electric vehicles

FIGURE 21 GLOBAL ELECTRIC & HYBRID VEHICLE SALES, 2018–2022

5.2.3.4 Growing need for transmission fluids in evolving automotive landscape

TABLE 15 COMPARISON OF DIFFERENT FLUID TYPES OF AUTOMATIC TRANSMISSION SYSTEMS

5.2.4 CHALLENGES

5.2.4.1 High cost of lightweight and efficient transmissions

5.2.4.2 Efficient power flow management

5.3 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

FIGURE 22 REVENUE SHIFT FOR AUTOMOTIVE TRANSMISSION MARKET

5.4 PATENT ANALYSIS

5.4.1 INTRODUCTION

TABLE 16 AUTOMOTIVE TRANSMISSION MARKET: INNOVATIONS AND PATENT REGISTRATIONS

5.5 CASE STUDY ANALYSIS

5.5.1 LIFE CYCLE ASSESSMENT OF TRANSMISSION CASE: MAGNESIUM VS. ALUMINUM

5.5.2 DESIGN ANALYSIS AND FABRICATION OF AUTOMOTIVE TRANSMISSION GEARBOX USING HOLLOW GEARS FOR WEIGHT REDUCTION

5.5.3 LIGHTWEIGHT ASSEMBLED GEARS: GREEN DESIGN SOLUTION FOR PASSENGER AND COMMERCIAL VEHICLES

5.5.4 ULTRA-LIGHTWEIGHT DESIGN OF SINGLE-SPEED TRANSMISSION

5.5.5 INTEGRATING PLANETARY DIFFERENTIAL FOR LIGHTER TRANSMISSION

5.6 TRADE ANALYSIS

5.6.1 IMPORT SCENARIO

TABLE 17 US: IMPORT SHARE, BY COUNTRY (VALUE %)

TABLE 18 FRANCE: IMPORT SHARE, BY COUNTRY (VALUE %)

TABLE 19 GERMANY: IMPORT SHARE, BY COUNTRY (VALUE %)

TABLE 20 MEXICO: IMPORT SHARE, BY COUNTRY (VALUE %)

TABLE 21 BELGIUM: IMPORT SHARE, BY COUNTRY (VALUE %)

5.6.2 EXPORT SCENARIO

TABLE 22 US: EXPORT SHARE, BY COUNTRY (VALUE %)

TABLE 23 FRANCE: EXPORT SHARE, BY COUNTRY (VALUE %)

TABLE 24 GERMANY: EXPORT SHARE, BY COUNTRY (VALUE %)

TABLE 25 MEXICO: EXPORT SHARE, BY COUNTRY (VALUE %)

TABLE 26 BELGIUM: EXPORT SHARE, BY COUNTRY (VALUE %)

5.7 REGULATORY ANALYSIS

5.7.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 27 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 28 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 29 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 30 REST OF THE WORLD: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.8 ECOSYSTEM MAP

FIGURE 23 AUTOMOTIVE TRANSMISSION MARKET ECOSYSTEM

FIGURE 24 ECOSYSTEM MAP FOR AUTOMOTIVE TRANSMISSION MARKET

5.8.1 AUTOMOTIVE EQUIPMENT SUPPLIERS

5.8.2 AUTOMOTIVE TRANSMISSION MANUFACTURERS

5.8.3 OEMS

5.8.4 END USERS

TABLE 31 AUTOMOTIVE TRANSMISSION MARKET: ROLE OF COMPANIES IN ECOSYSTEM

5.9 KEY CONFERENCES AND EVENTS

TABLE 32 AUTOMOTIVE TRANSMISSION MARKET: LIST OF KEY CONFERENCES AND EVENTS, 2024–2025

5.10 SUPPLY CHAIN ANALYSIS

FIGURE 25 AUTOMOTIVE TRANSMISSION MARKET: SUPPLY CHAIN ANALYSIS

5.11 PRICING ANALYSIS

FIGURE 26 PASSENGER CARS: ASP OF AUTOMOTIVE TRANSMISSION, 2021–2024 (USD)

TABLE 33 ASP OF AUTOMOTIVE TRANSMISSION, BY REGION, 2020–2023 (USD)

5.12 KEY STAKEHOLDERS AND BUYING CRITERIA

5.12.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 27 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR AUTOMOTIVE TRANSMISSIONS

TABLE 34 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR AUTOMOTIVE TRANSMISSIONS (%)

5.12.2 BUYING CRITERIA

FIGURE 28 KEY BUYING CRITERIA FOR AUTOMOTIVE TRANSMISSIONS

TABLE 35 KEY BUYING CRITERIA FOR AUTOMOTIVE TRANSMISSIONS

5.13 TECHNOLOGICAL ANALYSIS

5.13.1 INTRODUCTION

5.13.2 DEDICATED HYBRID TRANSMISSION (DHT)

FIGURE 29 DEDICATED HYBRID TRANSMISSION

5.13.3 800-VOLT POWER ELECTRONICS SYSTEM FOR ELECTRIC AXLES

5.13.4 AUTOMATED MANUAL TRANSMISSION

FIGURE 30 AUTOMATED MANUAL TRANSMISSION

5.13.5 ELECTRIFICATION OF AUTOMOTIVE TRANSMISSION

5.13.6 INNOVATIVE GEARBOX DESIGN FOR ELECTRIC VEHICLES

5.13.7 INGEAR 2-SPEED ELECTRIC VEHICLE TRANSMISSION

5.13.8 CVT TRANSMISSION FOR ELECTRIC VEHICLES

5.14 TOTAL COST OF OWNERSHIP

TABLE 36 TOTAL COST OF OWNERSHIP OF AUTOMATIC AND MANUAL TRANSMISSIONS

5.14.1 AUTOMATIC TRANSMISSION

5.14.2 MANUAL TRANSMISSION

6 AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE

6.1 INTRODUCTION

6.1.1 OPERATIONAL DATA

TABLE 37 DISTRIBUTION OF DUAL CLUTCH TRANSMISSION SOURCES FOR OEMS IN EUROPE

6.1.2 KEY INDUSTRY INSIGHTS

FIGURE 31 AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023 VS. 2028 (USD MILLION)

TABLE 38 AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 39 AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE,

2023–2028 (THOUSAND UNITS)

TABLE 40 AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 41 AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

6.2 MANUAL TRANSMISSION

6.2.1 CONSUMER DEMAND FOR MORE ENGAGING DRIVING EXPERIENCE AND COST-EFFECTIVENESS TO DRIVE MARKET

TABLE 42 MANUAL TRANSMISSION MARKET, BY VEHICLE TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 43 MANUAL TRANSMISSION MARKET, BY VEHICLE TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 44 MANUAL TRANSMISSION MARKET, BY VEHICLE TYPE, 2018–2022 (USD MILLION)

TABLE 45 MANUAL TRANSMISSION MARKET, BY VEHICLE TYPE, 2023–2028 (USD MILLION)

6.3 AUTOMATIC TRANSMISSION

6.3.1 INCREASING DEMAND FOR CONVENIENCE, COMFORT, AND SMOOTH GEAR SHIFTING TO DRIVE MARKET

TABLE 46 AUTOMATIC TRANSMISSION MARKET, BY VEHICLE TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 47 AUTOMATIC TRANSMISSION MARKET, BY VEHICLE TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 48 AUTOMATIC TRANSMISSION MARKET, BY VEHICLE TYPE, 2018–2022 (USD MILLION)

TABLE 49 AUTOMATIC TRANSMISSION MARKET, BY VEHICLE TYPE, 2023–2028 (USD MILLION)

6.4 AUTOMATED MANUAL TRANSMISSION

6.4.1 COST ADVANTAGES OFFERED BY AUTOMATED MANUAL TRANSMISSION TO DRIVE DEMAND IN ASIA PACIFIC

TABLE 50 AUTOMATED MANUAL TRANSMISSION MARKET, BY VEHICLE TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 51 AUTOMATED MANUAL TRANSMISSION MARKET, BY VEHICLE TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 52 AUTOMATED MANUAL TRANSMISSION MARKET, BY VEHICLE TYPE, 2018–2022 (USD MILLION)

TABLE 53 AUTOMATED MANUAL TRANSMISSION MARKET, BY VEHICLE TYPE, 2023–2028 (USD MILLION)

6.5 DUAL CLUTCH TRANSMISSION

6.5.1 INCREASING CONSUMER PREFERENCE FOR RESPONSIVE DRIVING EXPERIENCE TO DRIVE MARKET

TABLE 54 DUAL CLUTCH TRANSMISSION MARKET, BY VEHICLE TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 55 DUAL CLUTCH TRANSMISSION MARKET, BY VEHICLE TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 56 DUAL CLUTCH TRANSMISSION MARKET, BY VEHICLE TYPE, 2018–2022 (USD MILLION)

TABLE 57 DUAL CLUTCH TRANSMISSION MARKET, BY VEHICLE TYPE, 2023–2028 (USD MILLION)

6.6 CONTINUOUSLY VARIABLE TRANSMISSION

6.6.1 SMOOTHER OPERATION AND HIGHER FUEL ECONOMY TO DRIVE MARKET

TABLE 58 CONTINUOUSLY VARIABLE TRANSMISSION MARKET, BY VEHICLE TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 59 CONTINUOUSLY VARIABLE TRANSMISSION MARKET, BY VEHICLE TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 60 CONTINUOUSLY VARIABLE TRANSMISSION MARKET, BY VEHICLE TYPE, 2018–2022 (USD MILLION)

TABLE 61 CONTINUOUSLY VARIABLE TRANSMISSION MARKET, BY VEHICLE TYPE, 2023–2028 (USD MILLION)

7 AUTOMOTIVE TRANSMISSION MARKET, BY FUEL TYPE

7.1 INTRODUCTION

7.1.1 OPERATIONAL DATA

FIGURE 32 INDIA: DIESEL AND NON-DIESEL CAR MARKET SHARE

FIGURE 33 EUROPE: NEW CAR REGISTRATIONS, BY POWER SOURCE, 2022–2023

FIGURE 34 US: DIESEL, GASOLINE, EV, AND PHEV CAR MARKET SHARE

7.1.2 KEY INDUSTRY INSIGHTS

FIGURE 35 AUTOMOTIVE TRANSMISSION MARKET, BY FUEL TYPE, 2023 VS. 2028 (THOUSAND UNITS)

TABLE 62 AUTOMOTIVE TRANSMISSION MARKET, BY FUEL TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 63 AUTOMOTIVE TRANSMISSION MARKET, BY FUEL TYPE, 2023–2028 (THOUSAND UNITS)

7.2 DIESEL

7.2.1 HIGH FUEL EFFICIENCY AND INTEGRATION OF ADVANCED

TRANSMISSIONS WITH DIESEL ENGINES TO DRIVE MARKET

TABLE 64 DIESEL: AUTOMOTIVE TRANSMISSION MARKET, BY REGION, 2018–2022 (THOUSAND UNITS)

TABLE 65 DIESEL: AUTOMOTIVE TRANSMISSION MARKET, BY REGION, 2023–2028 (THOUSAND UNITS)

7.3 GASOLINE

7.3.1 LIGHTER TRANSMISSION SYSTEMS IN GASOLINE CARS TO DRIVE MARKET

TABLE 66 GASOLINE: AUTOMOTIVE TRANSMISSION MARKET, BY REGION, 2018–2022 (THOUSAND UNITS)

TABLE 67 GASOLINE: AUTOMOTIVE TRANSMISSION MARKET, BY REGION, 2023–2028 (THOUSAND UNITS)

7.4 ALTERNATE FUEL

7.4.1 EMISSION REGULATIONS AND GOVERNMENT INCENTIVES TO DRIVE MARKET

TABLE 68 ALTERNATE FUEL: AUTOMOTIVE TRANSMISSION MARKET, BY REGION, 2018–2022 (THOUSAND UNITS)

TABLE 69 ALTERNATE FUEL: AUTOMOTIVE TRANSMISSION MARKET, BY REGION, 2023–2028 (THOUSAND UNITS)

8 AUTOMOTIVE TRANSMISSION MARKET, BY NUMBER OF FORWARD GEARS

8.1 INTRODUCTION

8.1.1 OPERATIONAL DATA

TABLE 70 INDICATIVE LIST OF MODELS WITH >6 GEARS

8.1.2 INDUSTRY INSIGHTS

FIGURE 36 AUTOMOTIVE TRANSMISSION MARKET, BY NUMBER OF FORWARD GEARS, 2023 VS. 2028 (THOUSAND UNITS)

TABLE 71 AUTOMOTIVE TRANSMISSION MARKET, BY NUMBER OF FORWARD GEARS, 2018–2022 (THOUSAND UNITS)

TABLE 72 AUTOMOTIVE TRANSMISSION MARKET, BY NUMBER OF FORWARD GEARS, 2023–2028 (THOUSAND UNITS)

8.2 UP TO 5

8.2.1 ENGINE DOWNSIZING TO REDUCE EMISSIONS TO HINDER MARKET GROWTH

TABLE 73 UP TO 5: AUTOMOTIVE TRANSMISSION MARKET, BY REGION, 2018–2022 (THOUSAND UNITS)

TABLE 74 UP TO 5: AUTOMOTIVE TRANSMISSION MARKET, BY REGION, 2023–2028 (THOUSAND UNITS)

8.3 6 TO 8

8.3.1 GROWING DEMAND FOR FUEL EFFICIENCY TO DRIVE MARKET
TABLE 75 6 TO 8: AUTOMOTIVE TRANSMISSION MARKET, BY REGION,
2018–2022 (THOUSAND UNITS)

TABLE 76 6 TO 8: AUTOMOTIVE TRANSMISSION MARKET, BY REGION,
2023–2028 (THOUSAND UNITS)

8.4 9 TO 10

8.4.1 DEMAND FOR HIGH PERFORMANCE, EFFICIENCY, AND DRIVING
EXPERIENCE TO DRIVE MARKET

TABLE 77 9 TO 10: AUTOMOTIVE TRANSMISSION MARKET, BY REGION,
2018–2022 (THOUSAND UNITS)

TABLE 78 9 TO 10: AUTOMOTIVE TRANSMISSION MARKET, BY REGION,
2023–2028 (THOUSAND UNITS)

8.5 ABOVE 10

8.5.1 HIGH DEMAND FOR HCVS WITH MANUAL TRANSMISSIONS IN ASIA
PACIFIC TO DRIVE MARKET

TABLE 79 ABOVE 10: AUTOMOTIVE TRANSMISSION MARKET, BY REGION,
2018–2022 (THOUSAND UNITS)

TABLE 80 ABOVE 10: AUTOMOTIVE TRANSMISSION MARKET, BY REGION,
2023–2028 (THOUSAND UNITS)

8.6 CVT

8.6.1 SMOOTH GEAR SHIFTING AND HIGH FUEL EFFICIENCY TO DRIVE
MARKET

TABLE 81 CVT: AUTOMOTIVE TRANSMISSION MARKET, BY REGION, 2018–2022
(THOUSAND UNITS)

TABLE 82 CVT: AUTOMOTIVE TRANSMISSION MARKET, BY REGION, 2023–2028
(THOUSAND UNITS)

9 AUTOMOTIVE TRANSMISSION MARKET, BY VEHICLE TYPE

9.1 INTRODUCTION

9.1.1 OPERATIONAL DATA

FIGURE 37 EX-SHOWROOM PRICE OF AUTOMATIC AND MANUAL MODELS OF
INDIAN CARS (USD)

9.1.2 KEY INDUSTRY INSIGHTS

FIGURE 38 AUTOMOTIVE TRANSMISSION MARKET, BY VEHICLE TYPE, 2023 VS.
2028 (USD MILLION)

TABLE 83 AUTOMOTIVE TRANSMISSION MARKET, BY VEHICLE TYPE, 2018–2022
(THOUSAND UNITS)

TABLE 84 AUTOMOTIVE TRANSMISSION MARKET, BY VEHICLE TYPE, 2023–2028
(THOUSAND UNITS)

TABLE 85 AUTOMOTIVE TRANSMISSION MARKET, BY VEHICLE TYPE, 2018–2022
(USD MILLION)

TABLE 86 AUTOMOTIVE TRANSMISSION MARKET, BY VEHICLE TYPE, 2023–2028
(USD MILLION)

9.2 PASSENGER CARS

9.2.1 GROWING DEMAND FOR FUEL-EFFICIENT VEHICLES TO DRIVE MARKET

TABLE 87 PASSENGER CARS TRANSMISSION MARKET, BY TRANSMISSION
TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 88 PASSENGER CARS TRANSMISSION MARKET, BY TRANSMISSION
TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 89 PASSENGER CARS TRANSMISSION MARKET, BY TRANSMISSION
TYPE, 2018–2022 (USD MILLION)

TABLE 90 PASSENGER CARS TRANSMISSION MARKET, BY TRANSMISSION
TYPE, 2023–2028 (USD MILLION)

9.3 LIGHT COMMERCIAL VEHICLES

9.3.1 HIGH DEMAND IN NORTH AMERICA TO DRIVE MARKET

TABLE 91 LIGHT COMMERCIAL VEHICLES TRANSMISSION MARKET, BY
TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 92 LIGHT COMMERCIAL VEHICLES TRANSMISSION MARKET, BY
TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 93 LIGHT COMMERCIAL VEHICLES TRANSMISSION MARKET, BY
TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 94 LIGHT COMMERCIAL VEHICLES TRANSMISSION MARKET, BY
TRANSMISSION TYPE, 2023–2028 (USD MILLION)

9.4 TRUCKS

9.4.1 FUEL-SAVING AND DRIVER RETENTION BENEFITS TO DRIVE ADOPTION
OF AMT AND AT SYSTEMS BY TRUCK COMPANIES

TABLE 95 TRUCKS TRANSMISSION MARKET, BY TRANSMISSION TYPE,
2018–2022 (THOUSAND UNITS)

TABLE 96 TRUCKS TRANSMISSION MARKET, BY TRANSMISSION TYPE,
2023–2028 (THOUSAND UNITS)

TABLE 97 TRUCKS TRANSMISSION MARKET, BY TRANSMISSION TYPE,
2018–2022 (USD MILLION)

TABLE 98 TRUCKS TRANSMISSION MARKET, BY TRANSMISSION TYPE,
2023–2028 (USD MILLION)

9.5 BUSES

9.5.1 DRIVER PREFERENCE FOR ADVANCED AND RELIABLE TRANSMISSIONS

TO DRIVE MARKET

TABLE 99 BUS TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022
(THOUSAND UNITS)

TABLE 100 BUS TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028
(THOUSAND UNITS)

TABLE 101 BUS TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022
(USD MILLION)

TABLE 102 BUS TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028
(USD MILLION)

10 AUTOMOTIVE TRANSMISSION MARKET, BY HYBRID ELECTRIC VEHICLE TYPE

10.1 INTRODUCTION

10.1.1 OPERATIONAL DATA

FIGURE 39 NEW EU CAR REGISTRATIONS, BY POWER SOURCE, 2023

10.1.2 KEY INDUSTRY INSIGHTS

FIGURE 40 AUTOMOTIVE TRANSMISSION MARKET FOR HYBRID ELECTRIC VEHICLES, BY REGION, 2023 VS. 2028 (THOUSAND UNITS)

TABLE 103 AUTOMOTIVE TRANSMISSION MARKET FOR HYBRID ELECTRIC VEHICLES, BY REGION, 2018–2022 (THOUSAND UNITS)

TABLE 104 AUTOMOTIVE TRANSMISSION MARKET FOR HYBRID ELECTRIC VEHICLES, BY REGION, 2023–2028 (THOUSAND UNITS)

10.2 AUTOMATIC TRANSMISSION

10.3 CVT TRANSMISSION

10.4 ASIA PACIFIC

10.4.1 PRESENCE OF MAJOR AUTOMAKERS TO DRIVE HYBRID VEHICLE ADOPTION

TABLE 105 ASIA PACIFIC: HYBRID ELECTRIC VEHICLES TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 106 ASIA PACIFIC: HYBRID ELECTRIC VEHICLES TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

10.5 NORTH AMERICA

10.5.1 GROWING ADOPTION OF HYBRID AND PLUG-IN HYBRID ELECTRIC VEHICLES TO DRIVE MARKET

TABLE 107 NORTH AMERICA: HYBRID ELECTRIC VEHICLES TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 108 NORTH AMERICA: HYBRID ELECTRIC VEHICLES TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

10.6 EUROPE

10.6.1 GOVERNMENT NORMS FOR CO₂ REDUCTION AND INCREASE IN HYBRID VEHICLE ADOPTION DRIVE MARKET

TABLE 109 EUROPE: HYBRID ELECTRIC VEHICLES TRANSMISSION MARKET, 2018–2022 (THOUSAND UNITS)

TABLE 110 EUROPE: HYBRID ELECTRIC VEHICLES TRANSMISSION MARKET, 2023–2028 (THOUSAND UNITS)

11 AUTOMOTIVE TWO-WHEELER TRANSMISSION MARKET, BY TYPE

11.1 INTRODUCTION

11.1.1 OPERATIONAL DATA

TABLE 111 TWO-WHEELERS AND THEIR FUEL ECONOMY

11.1.2 INDUSTRY INSIGHTS

FIGURE 41 TWO-WHEELER TRANSMISSION MARKET, BY TYPE, 2023 VS. 2028 (THOUSAND UNITS)

TABLE 112 TWO-WHEELER TRANSMISSION MARKET, BY TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 113 TWO-WHEELER TRANSMISSION MARKET, BY TYPE, 2023–2028 (THOUSAND UNITS)

11.2 MANUAL TRANSMISSION

11.2.1 GROWING PREFERENCE FOR TWO-WHEELERS WITH CONVENTIONAL MANUAL SHIFTS TO DRIVE MARKET

TABLE 114 TWO-WHEELER MANUAL TRANSMISSION MARKET, BY REGION, 2018–2022 (THOUSAND UNITS)

TABLE 115 TWO-WHEELER MANUAL TRANSMISSION MARKET, BY REGION, 2023–2028 (THOUSAND UNITS)

11.3 AUTOMATIC TRANSMISSION

11.3.1 INCREASING PREFERENCE FOR COMFORT AND CONVENIENCE TO DRIVE MARKET

TABLE 116 TWO-WHEELER AUTOMATIC TRANSMISSION MARKET, BY REGION, 2018–2022 (THOUSAND UNITS)

TABLE 117 TWO-WHEELER AUTOMATIC TRANSMISSION MARKET, BY REGION, 2023–2028 (THOUSAND UNITS)

12 AUTOMOTIVE TRANSMISSION MARKET, BY REGION

12.1 INTRODUCTION

FIGURE 42 AUTOMOTIVE TRANSMISSION MARKET, BY REGION, 2023 VS. 2028

(USD MILLION)

TABLE 118 AUTOMOTIVE TRANSMISSION MARKET, BY REGION, 2018–2022

(THOUSAND UNITS)

TABLE 119 AUTOMOTIVE TRANSMISSION MARKET, BY REGION, 2023–2028

(THOUSAND UNITS)

TABLE 120 AUTOMOTIVE TRANSMISSION MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 121 AUTOMOTIVE TRANSMISSION MARKET, BY REGION, 2023–2028 (USD MILLION)

12.2 ASIA PACIFIC

12.2.1 RECESSION IMPACT

FIGURE 43 ASIA PACIFIC: AUTOMOTIVE TRANSMISSION MARKET SNAPSHOT

TABLE 122 ASIA PACIFIC: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2018–2022 (THOUSAND UNITS)

TABLE 123 ASIA PACIFIC: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2023–2028 (THOUSAND UNITS)

TABLE 124 ASIA PACIFIC: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 125 ASIA PACIFIC: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

12.2.2 CHINA

12.2.2.1 Increasing traffic congestion and growing demand for electric vehicles to drive market

TABLE 126 CHINA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 127 CHINA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 128 CHINA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 129 CHINA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.2.3 INDIA

12.2.3.1 Growing demand for passenger vehicles to drive market

TABLE 130 INDIA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 131 INDIA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 132 INDIA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 133 INDIA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.2.4 JAPAN

12.2.4.1 Rising traffic congestion to drive market

TABLE 134 JAPAN: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 135 JAPAN: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 136 JAPAN: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 137 JAPAN: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.2.5 SOUTH KOREA

12.2.5.1 Technological developments in automotive sector to drive market

TABLE 138 SOUTH KOREA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 139 SOUTH KOREA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 140 SOUTH KOREA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 141 SOUTH KOREA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.2.6 THAILAND

12.2.6.1 Tax exemption on import duties for raw materials to drive market

TABLE 142 THAILAND: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 143 THAILAND: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 144 THAILAND: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 145 THAILAND: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.2.7 REST OF ASIA PACIFIC

TABLE 146 REST OF ASIA PACIFIC: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 147 REST OF ASIA PACIFIC: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 148 REST OF ASIA PACIFIC: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 149 REST OF ASIA PACIFIC: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.3 EUROPE

12.3.1 RECESSION IMPACT

FIGURE 44 EUROPE: AUTOMOTIVE TRANSMISSION MARKET SNAPSHOT

TABLE 150 EUROPE: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2018–2022 (THOUSAND UNITS)

TABLE 151 EUROPE: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2023–2028 (THOUSAND UNITS)

TABLE 152 EUROPE: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 153 EUROPE: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

12.3.2 GERMANY

12.3.2.1 Electrification of drivelines to drive market

TABLE 154 GERMANY: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 155 GERMANY: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 156 GERMANY: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 157 GERMANY: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.3.3 FRANCE

12.3.3.1 Automatic transmissions to gain popularity

TABLE 158 FRANCE: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 159 FRANCE: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 160 FRANCE: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 161 FRANCE: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.3.4 ITALY

12.3.4.1 Presence of major automotive companies to drive market

TABLE 162 ITALY: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 163 ITALY: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 164 ITALY: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 165 ITALY: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.3.5 RUSSIA

12.3.5.1 Construction of new manufacturing facilities and investments in automotive industry to drive market

TABLE 166 RUSSIA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 167 RUSSIA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 THOUSAND UNITS)

TABLE 168 RUSSIA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 169 RUSSIA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.3.6 UK

12.3.6.1 Developments in automatic gearboxes and rising demand for electric vehicles to drive market

TABLE 170 UK: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 171 UK: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 172 UK: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 173 UK: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.3.7 SPAIN

12.3.7.1 Rising production and exports of vehicles to drive market

TABLE 174 SPAIN: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 175 SPAIN: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 176 SPAIN: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 177 SPAIN: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.3.8 REST OF EUROPE

TABLE 178 REST OF EUROPE: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 179 REST OF EUROPE: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 180 REST OF EUROPE: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 181 REST OF EUROPE: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.4 NORTH AMERICA

12.4.1 RECESSION IMPACT

FIGURE 45 NORTH AMERICA: AUTOMOTIVE TRANSMISSION MARKET SNAPSHOT, 2023 VS. 2028 (USD MILLION)

TABLE 182 NORTH AMERICA: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2018–2022 (THOUSAND UNITS)

TABLE 183 NORTH AMERICA: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2023–2028 (THOUSAND UNITS)

TABLE 184 NORTH AMERICA: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 185 NORTH AMERICA: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

12.4.2 CANADA

12.4.2.1 Increasing launch of electric vehicles to drive market

TABLE 186 CANADA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 187 CANADA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 188 CANADA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 189 CANADA AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.4.3 MEXICO

12.4.3.1 Growing demand for HCVs to drive market

TABLE 190 MEXICO: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 191 MEXICO: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 192 MEXICO: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 193 MEXICO: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.4.4 US

12.4.4.1 Rising sales of SUVs and pick-up trucks to drive market

TABLE 194 US: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 195 US: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 196 US: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 197 US: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.5 LATIN AMERICA

FIGURE 46 LATIN AMERICA: AUTOMOTIVE TRANSMISSION MARKET SNAPSHOT, 2023 VS. 2028 (USD MILLION)

TABLE 198 LATIN AMERICA: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2018–2022 (THOUSAND UNITS)

TABLE 199 LATIN AMERICA: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2023–2028 (THOUSAND UNITS)

TABLE 200 LATIN AMERICA: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 201 LATIN AMERICA: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

12.5.1 BRAZIL

12.5.1.1 Growing adoption of DCTs and CVTs to impact market

TABLE 202 BRAZIL: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 203 BRAZIL: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 204 BRAZIL: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 205 BRAZIL: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.5.2 ARGENTINA

12.5.2.1 Increasing demand and supply of premium vehicles to drive market

TABLE 206 ARGENTINA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 207 ARGENTINA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 208 ARGENTINA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 209 ARGENTINA: AUTOMOTIVE TRANSMISSION MARKET, BY

TRANSMISSION TYPE, 2023–2028 (USD MILLION)**12.5.3 REST OF LATIN AMERICA****TABLE 210 REST OF LATIN AMERICA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)****TABLE 211 REST OF LATIN AMERICA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)****TABLE 212 REST OF LATIN AMERICA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)****TABLE 213 REST OF LATIN AMERICA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)****12.6 MIDDLE EAST & AFRICA****FIGURE 47 MIDDLE EAST & AFRICA: AUTOMOTIVE TRANSMISSION MARKET SNAPSHOT, 2023 VS. 2028 (USD MILLION)****TABLE 214 MIDDLE EAST & AFRICA: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2018–2022 (THOUSAND UNITS)****TABLE 215 MIDDLE EAST & AFRICA: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2023–2028 (THOUSAND UNITS)****TABLE 216 MIDDLE EAST & AFRICA: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2018–2022 (USD MILLION)****TABLE 217 MIDDLE EAST & AFRICA: AUTOMOTIVE TRANSMISSION MARKET, BY COUNTRY, 2023–2028 (USD MILLION)****12.6.1 IRAN****12.6.1.1 Expansion of production lines for automatic gearboxes to drive market****TABLE 218 IRAN: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)****TABLE 219 IRAN: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)****TABLE 220 IRAN: AUTOMOTIVE TRANSMISSION MARKET, TRANSMISSION TYPE, 2018–2022 (USD MILLION)****TABLE 221 IRAN: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)****12.6.2 SOUTH AFRICA****12.6.2.1 Growing demand for affordable automatic cars to decline manual transmission market****TABLE 222 SOUTH AFRICA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)****TABLE 223 SOUTH AFRICA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)****TABLE 224 SOUTH AFRICA: AUTOMOTIVE TRANSMISSION MARKET, BY**

TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 225 SOUTH AFRICA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

12.6.3 REST OF MIDDLE EAST & AFRICA

TABLE 226 REST OF MIDDLE EAST & AFRICA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (THOUSAND UNITS)

TABLE 227 REST OF MIDDLE EAST & AFRICA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (THOUSAND UNITS)

TABLE 228 REST OF MIDDLE EAST & AFRICA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2018–2022 (USD MILLION)

TABLE 229 REST OF MIDDLE EAST & AFRICA: AUTOMOTIVE TRANSMISSION MARKET, BY TRANSMISSION TYPE, 2023–2028 (USD MILLION)

13 COMPETITIVE LANDSCAPE

13.1 OVERVIEW

13.2 MARKET SHARE ANALYSIS

TABLE 230 DEGREE OF COMPETITION, 2022

FIGURE 48 MARKET SHARE ANALYSIS, 2022

13.2.1 CVT MARKET SHARE ANALYSIS

FIGURE 49 CVT MARKET SHARE BY KEY COMPANIES, 2019

13.3 REVENUE ANALYSIS

FIGURE 50 REVENUE ANALYSIS OF TOP LISTED/PUBLIC PLAYERS, 2020–2022

13.4 KEY PLAYERS' STRATEGIES

TABLE 231 KEY PLAYER STRATEGIES

13.5 COMPANY EVALUATION MATRIX

13.5.1 STARS

13.5.2 EMERGING LEADERS

13.5.3 PERVASIVE PLAYERS

13.5.4 PARTICIPANTS

FIGURE 51 COMPANY EVALUATION MATRIX, 2022

13.5.5 COMPANY FOOTPRINT

TABLE 232 AUTOMOTIVE TRANSMISSION MARKET: OVERALL FOOTPRINT

TABLE 233 AUTOMOTIVE TRANSMISSION MARKET: APPLICATION FOOTPRINT

TABLE 234 AUTOMOTIVE TRANSMISSION MARKET: REGION FOOTPRINT

13.6 STARTUP/SME EVALUATION MATRIX

13.6.1 PROGRESSIVE COMPANIES

13.6.2 RESPONSIVE COMPANIES

13.6.3 DYNAMIC COMPANIES

13.6.4 STARTING BLOCKS

FIGURE 52 STARTUP/SME EVALUATION MATRIX, 2022

13.6.5 COMPETITIVE BENCHMARKING

TABLE 235 AUTOMOTIVE TRANSMISSION MARKET: KEY STARTUPS/SMES

TABLE 236 COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES

13.7 COMPETITIVE SCENARIO

FIGURE 53 KEY DEVELOPMENTS BY LEADING PLAYERS

13.7.1 PRODUCT LAUNCHES

TABLE 237 AUTOMOTIVE TRANSMISSION MARKET: PRODUCT LAUNCHES, DECEMBER 2019–DECEMBER 2023

13.7.2 DEALS

TABLE 238 AUTOMOTIVE TRANSMISSION MARKET: DEALS, MARCH 2019–DECEMBER 2023

13.7.3 EXPANSIONS

TABLE 239 AUTOMOTIVE TRANSMISSION MARKET: EXPANSIONS, SEPTEMBER 2020–DECEMBER 2023

13.8 SUPPLIER ANALYSIS

13.8.1 MANUAL TRANSMISSION

TABLE 240 MANUAL TRANSMISSION SUPPLIERS LIST, 2019–2023

13.8.2 AUTOMATIC TRANSMISSION

TABLE 241 AUTOMATIC TRANSMISSION SUPPLIERS LIST, 2019–2023

13.8.3 DUAL-CLUTCH TRANSMISSION

TABLE 242 DUAL-CLUTCH TRANSMISSION SUPPLIERS LIST, 2019–2023

13.8.4 CONTINUOUSLY VARIABLE TRANSMISSION

TABLE 243 CONTINUOUSLY VARIABLE TRANSMISSION SUPPLIERS LIST, 2019–2023

13.9 PRODUCT COMPARISON

FIGURE 54 PRODUCT COMPARISON

13.10 COMPANY VALUATION

FIGURE 55 COMPANY VALUATION

14 COMPANY PROFILES

(Business overview, Products/Solutions/Services offered, Recent developments & MnM View)*

14.1 KEY PLAYERS

14.1.1 ZF FRIEDRICHSHAFEN AG

TABLE 244 ZF FRIEDRICHSHAFEN AG: COMPANY OVERVIEW

FIGURE 56 ZF FRIEDRICHSHAFEN AG: COMPANY SNAPSHOT

TABLE 245 ZF FRIEDRICHSHAFEN AG: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 246 ZF FRIEDRICHSHAFEN AG: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 247 ZF FRIEDRICHSHAFEN AG: DEALS

TABLE 248 ZF FRIEDRICHSHAFEN AG: EXPANSIONS

14.1.2 MAGNA INTERNATIONAL INC.

TABLE 249 MAGNA INTERNATIONAL INC.: COMPANY OVERVIEW

FIGURE 57 MAGNA INTERNATIONAL INC.: COMPANY SNAPSHOT

TABLE 250 MAGNA INTERNATIONAL INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 251 MAGNA INTERNATIONAL INC.: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 252 MAGNA INTERNATIONAL INC.: DEALS

TABLE 253 MAGNA INTERNATIONAL INC.: EXPANSIONS

14.1.3 AISIN CORPORATION

TABLE 254 AISIN CORPORATION: COMPANY OVERVIEW

FIGURE 58 AISIN CORPORATION: COMPANY SNAPSHOT

TABLE 255 AISIN CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 256 AISIN CORPORATION: DEALS

TABLE 257 AISIN CORPORATION: OTHER DEVELOPMENTS

14.1.4 EATON CORPORATION

TABLE 258 EATON CORPORATION: COMPANY OVERVIEW

FIGURE 59 EATON CORPORATION: COMPANY SNAPSHOT

TABLE 259 EATON CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 260 EATON CORPORATION: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 261 EATON CORPORATION: DEALS

14.1.5 JATCO LTD.

TABLE 262 JATCO LTD.: COMPANY OVERVIEW

FIGURE 60 JATCO LTD.: COMPANY SNAPSHOT

TABLE 263 JATCO LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 264 JATCO LTD.: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 265 JATCO LTD.: DEALS

TABLE 266 JATCO LTD.: EXPANSIONS

14.1.6 VITESCO TECHNOLOGIES

TABLE 267 VITESCO TECHNOLOGIES: COMPANY OVERVIEW

FIGURE 61 VITESCO TECHNOLOGIES: COMPANY SNAPSHOT

TABLE 268 VITESCO TECHNOLOGIES: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 269 VITESCO TECHNOLOGIES: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 270 VITESCO TECHNOLOGIES: DEALS

TABLE 271 VITESCO TECHNOLOGIES: EXPANSIONS

TABLE 272 VITESCO TECHNOLOGIES: OTHER DEVELOPMENTS

14.1.7 SCHAEFFLER AG

TABLE 273 SCHAEFFLER AG: COMPANY OVERVIEW

FIGURE 62 SCHAEFFLER AG: COMPANY SNAPSHOT

TABLE 274 SCHAEFFLER AG: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 275 SCHAEFFLER AG: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 276 SCHAEFFLER AG: DEALS

TABLE 277 SCHAEFFLER AG: EXPANSIONS

TABLE 278 SCHAEFFLER AG: OTHER DEVELOPMENTS

14.1.8 BORGWARNER INC.

TABLE 279 BORGWARNER INC.: COMPANY OVERVIEW

FIGURE 63 BORGWARNER INC.: COMPANY SNAPSHOT

TABLE 280 BORGWARNER INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 281 BORGWARNER INC.: DEALS

TABLE 282 BORGWARNER INC.: EXPANSIONS

14.1.9 ALLISON TRANSMISSION INC.

TABLE 283 ALLISON TRANSMISSION INC.: COMPANY OVERVIEW

FIGURE 64 ALLISON TRANSMISSION INC.: COMPANY SNAPSHOT

TABLE 284 ALLISON TRANSMISSION INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 285 ALLISON TRANSMISSION INC.: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 286 ALLISON TRANSMISSION INC.: DEALS

14.1.10 GKN AUTOMOTIVE

TABLE 287 GKN AUTOMOTIVE: COMPANY OVERVIEW

FIGURE 65 GKN AUTOMOTIVE: COMPANY SNAPSHOT

TABLE 288 GKN AUTOMOTIVE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 289 GKN AUTOMOTIVE: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 290 GKN AUTOMOTIVE: DEALS

TABLE 291 GKN AUTOMOTIVE: EXPANSIONS

14.1.11 HYUNDAI TRANSYS

TABLE 292 HYUNDAI TRANSYS: COMPANY OVERVIEW

FIGURE 66 HYUNDAI TRANSYS: COMPANY SNAPSHOT

TABLE 293 HYUNDAI TRANSYS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 294 HYUNDAI TRANSYS: DEALS

TABLE 295 HYUNDAI TRANSYS: EXPANSIONS

14.1.12 DANA LIMITED

TABLE 296 DANA LIMITED: COMPANY OVERVIEW

FIGURE 67 DANA LIMITED: COMPANY SNAPSHOT

TABLE 297 DANA LIMITED: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 298 DANA LIMITED.: PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 299 DANA LIMITED: DEALS

14.1.13 WEICHAH POWER CO., LTD.

TABLE 300 WEICHAH POWER CO., LTD.: COMPANY OVERVIEW

FIGURE 68 WEICHAH POWER CO., LTD.: COMPANY SNAPSHOT

TABLE 301 WEICHAH POWER CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 302 WEICHAH POWER CO., LTD.: DEALS

*Details on Business overview, Products/Solutions/Services offered, Recent developments & MnM View might not be captured in case of unlisted companies.

14.2 OTHER KEY PLAYERS

14.2.1 GENERAL MOTORS

TABLE 303 GENERAL MOTORS: COMPANY OVERVIEW

14.2.2 KATE LLC

TABLE 304 KATE LLC: COMPANY OVERVIEW

14.2.3 MUHR UND BENDER KG

TABLE 305 MUHR UND BENDER KG: COMPANY OVERVIEW

14.2.4 STARTRANSMISSION & STARASSEMBLY

TABLE 306 STARTRANSMISSION & STARASSEMBLY: COMPANY OVERVIEW

14.2.5 MACLEAN-FOGG COMPONENT SOLUTIONS, LLC

TABLE 307 MACLEAN-FOGG COMPONENT SOLUTIONS, LLC: COMPANY OVERVIEW

14.2.6 MAZDA

TABLE 308 MAZDA: COMPANY OVERVIEW

14.2.7 FORD

TABLE 309 FORD: COMPANY OVERVIEW

14.2.8 DAIHATSU

TABLE 310 DAIHATSU: COMPANY OVERVIEW

14.2.9 SUBARU

TABLE 311 SUBARU: COMPANY OVERVIEW

14.2.10 TREMEC

TABLE 312 TREMEC: COMPANY OVERVIEW

14.2.11 PUNCH POWERTRAIN NV

TABLE 313 PUNCH POWERTRAIN NV: COMPANY OVERVIEW

14.2.12 ZEROSHIFT

TABLE 314 ZEROSHIFT TRANSMISSIONS LTD.: COMPANY OVERVIEW

14.2.13 XTRAC LTD.

TABLE 315 XTRAC LTD.: COMPANY OVERVIEW

15 RECOMMENDATIONS BY MARKETSDANDMARKETS

15.1 ASIA PACIFIC TO DOMINATE AUTOMOTIVE TRANSMISSION MARKET DURING FORECAST PERIOD

15.2 IVT TRANSMISSION FOR FUTURE APPLICATIONS - KEY FOCUS AREA

15.3 CONCLUSION

16 APPENDIX

16.1 INSIGHTS FROM INDUSTRY EXPERTS

16.2 DISCUSSION GUIDE

16.3 KNOWLEDGESTORE: MARKETSDANDMARKETS' SUBSCRIPTION PORTAL

16.4 CUSTOMIZATION OPTIONS

16.4.1 AUTOMOTIVE TRANSMISSION MARKET, BY FUEL TYPE & COUNTRY

16.4.1.1 Asia Pacific

16.4.1.1.1 China

16.4.1.1.2 India

16.4.1.1.3 Japan

16.4.1.1.4 South Korea

16.4.1.1.5 Rest of Asia Pacific

16.4.1.2 Europe

16.4.1.2.1 Germany

16.4.1.2.2 France

16.4.1.2.3 UK

16.4.1.2.4 Spain

16.4.1.2.5 Italy

16.4.1.2.6 Rest of Europe

16.4.1.3 North America

16.4.1.3.1 US

16.4.1.3.2 Canada

16.4.1.3.3 Mexico

16.4.1.4 Latin America

16.4.1.4.1 Brazil

16.4.1.4.2 Argentina

16.4.1.4.3 Rest of Latin America

16.4.1.5 Middle East & Africa

16.4.1.5.1 South Africa

16.4.1.5.2 Iran

16.4.1.5.3 Rest of Middle East & Africa

16.4.2 DETAILED ANALYSIS AND PROFILING OF ADDITIONAL MARKET
PLAYERS (UP TO 3)

16.5 RELATED REPORTS

16.6 AUTHOR DETAILS

About

The definition of transmission system for this market study is as follows, “The transmission system of a vehicle includes various components such as driveshaft, planetary gears, clutch/torque converter, differential, transfer case, and locking hubs which are used to deliver power to the wheels of the vehicle.”

The transmission types considered for this study are manual transmission (MT), automatic transmission (AT), automated manual transmission (AMT), and continuously variable transmission (CVT).

Manual Transmission (MT) – A manual transmission is also called stick-shift transmission mechanism as it uses a stick for shifting of gears. This system uses a driver-operated clutch, gear selector, and synchronizers for smooth shifting during gear shift. According to the scope of the report, for market size (value) estimates, manual transmission includes key components such as flywheels, pressure plates, clutch, and gears.

Automatic Transmission (AT) – An automatic transmission system makes use of fluid coupling between the engine and clutch and utilizes the same gearbox as that of a manual transmission system. The gear shifting operation is usually performed by means of hydraulic or vacuum cylinders. According to the scope of the report, for market size (value) estimates, automatic transmission includes key components such as governors, modulators, electronic control unit (ECU), torque converters, planetary gear sets, and hydraulic system.

Automated Manual Transmission (AMT) – Automated manual transmission is also called semi-automatic transmission; it doesn't change gears automatically but facilitates the changing of gears by eliminating the need to press the clutch. There are two types of AMTs: single-clutch and dual-clutch transmission system. According to the scope of the report, for market size (value) estimates, automated manual transmission includes key components such as ECU, clutch, actuators, torque converters, and hydraulic systems.

Continuously Variable Transmission (CVT) – A continuously variable transmission system is a type of transmission that can change seamlessly infinite number of gear ratios between the maximum and minimum values of the engine. This type of transmission enables the engine to run at its maximum efficiency by reducing power

loss during shifting of gears. According to the scope of the report, for market value estimates continuously variable transmission includes, key components such as variable-input driving pulleys, output driven pulleys, sensors, link-plate chains, hydraulics, and high-power metal or rubber belts.

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