

In-Wheel Motor Market by Propulsion (BEV, HEV, PHEV & FCEV), Vehicle Type (PC & CV), Motor (Axial & Radial), Cooling (Air & Liquid), Power Output (Up to 60 kW, 60-90 kW & Above 90 kW), Vehicle Class, Motor Weight, and Region - Global Forecast to 2026

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Abstracts

The global in-wheel motor market is estimated to grow from USD 808 million in 2021 at a CAGR of 40.3% to reach USD 4,395 million by 2026. Government subsidies and tax rebates for electric vehicles, increased driving range, reliability, and improved vehicle performance are the factors responsible for the growth of the in-wheel motor market. However, challenges such as high price and increase in unsprung weight in wheels are the major restraints for the growth of the in-wheel motor market.

“Radial flux motor segment, by motor type, is the fastest growing segment of the in-wheel market”

The radial flux motor segment, by motor type, is the fastest growing segment of the in-wheel motor market. The radial flux motor is the most common motor type adopted for in-wheel motors as the rotor can be directly fixed to the wheel. Moreover, in radial flux motors, the outer rotor design is about 15% lighter than the inner rotor machine, which generates the same torque due to their longer air gap diameter. In-wheel motors are almost radial because of integration benefits, durability, and torque density.

“Asia-Pacific is the fastest growing in-wheel motor market”

Asia-Pacific is the fastest growing market for EVs, followed by North America. North America is a regional hub for many renowned EV manufacturers, which are known for delivering quality and high-performance vehicles. OEMs in North America such as Tesla

and GM are focused on the development of faster, cleaner, and high-performance electric vehicles. BMW, Nissan, Volkswagen, and Daimler are the leading OEMs in the US that have launched electric vehicles nationwide, resulting in the large demand for in-wheel motors. The top-selling electric vehicles in the US are Tesla Model S, Chevy Volt, and Nissan Leaf and are equipped with in-wheel motors.

The study contains insights provided by various industry experts, ranging from online retailers to Tier-1 companies and OEMs. The breakup of the primaries is as follows:

By Company Type: Tier I-42%, Tier II-40%, and Tier III-18%,

By Designation: C Level-57%, D Level-29%, and Others-14%

By Region: North America-28%, Europe-27%, Asia-Pacific-34%, Rest of the World-11%

The key market players profiled in the report are:

Protean Electric (US)

Elaphe (Slovenia)

ZIEHL-ABEGG (Germany)

Printed Motor Works (UK)

NTN (Japan)

E-TRACTION (The Netherlands)

TM4 (Canada)

ECOMove (Germany)

NSK (Japan)

TAJIMA EV (Japan)

Schaeffler (Germany)

Research Coverage:

The report provides a picture of the global in-wheel motor market, along with the market details with respect to different regions and countries. It aims at estimating the market size and future growth potential of this market across different segments such as by propulsion type, vehicle type, motor type, cooling type, power output type, and region. Furthermore, the report also includes an in-depth competitive analysis of the key players in the market along with their company profiles, recent developments, and key market strategies.

Key Benefits of Buying the Report:

The report will help the market leaders/new entrants provide the closest approximations of the revenue numbers of the overall in-wheel motor market and its subsegments. This report will help stakeholders understand the competitor landscape better and gain more insights to position their businesses and make suitable go-to-market strategies. The report also helps the stakeholders understand the pulse of the market and provides information on key market drivers, restraints, challenges, and opportunities.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 MARKET SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 IN-WHEEL MOTOR MARKET SEGMENTATION

1.3.2 INCLUSIONS & EXCLUSIONS

TABLE 1 INCLUSIONS & EXCLUSIONS

1.3.3 YEARS CONSIDERED FOR THE STUDY

1.4 PACKAGE SIZE

1.5 STAKEHOLDERS

1.6 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 IN-WHEEL MOTOR MARKET: RESEARCH DESIGN

FIGURE 3 RESEARCH METHODOLOGY MODEL

2.1.1 SECONDARY DATA

2.1.1.1 Key secondary sources

2.1.1.2 Key data from secondary sources

2.1.2 PRIMARY DATA

FIGURE 4 BREAKDOWN OF PRIMARY INTERVIEWS

2.1.2.1 List of primary participants

2.2 MARKET ESTIMATION METHODOLOGY

FIGURE 5 RESEARCH METHODOLOGY: HYPOTHESIS BUILDING

2.3 MARKET SIZE ESTIMATION

2.3.1 BOTTOM-UP APPROACH

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY FOR THE IN-WHEEL MOTOR MARKET: BOTTOM-UP APPROACH

FIGURE 7 IN-WHEEL MOTOR MARKET SIZE ESTIMATION APPROACH

2.3.2 TOP-DOWN APPROACH

FIGURE 8 MARKET SIZE ESTIMATION METHODOLOGY FOR THE IN-WHEEL MOTOR MARKET: TOP-DOWN APPROACH

FIGURE 9 IN-WHEEL MOTOR MARKET: RESEARCH METHODOLOGY

ILLUSTRATION OF NTN CORPORATION'S IN-WHEEL MOTOR REVENUE

ESTIMATION

FIGURE 10 IN-WHEEL MOTOR MARKET: RESEARCH DESIGN & METHODOLOGY

FIGURE 11 CAGR PROJECTIONS: FACTOR ANALYSIS

2.4 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 12 DATA TRIANGULATION

2.5 FACTOR ANALYSIS

2.5.1 FACTOR ANALYSIS FOR MARKET SIZING: DEMAND AND SUPPLY-SIDE

2.6 ASSUMPTIONS

2.7 RESEARCH LIMITATIONS

3 EXECUTIVE SUMMARY

FIGURE 13 IN-WHEEL MOTOR MARKET: MARKET OVERVIEW

FIGURE 14 IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026 (UNITS)

FIGURE 15 IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026

FIGURE 16 IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2021 VS. 2026 (UNITS)

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE GLOBAL OPPORTUNITIES IN THE IN-WHEEL MOTOR MARKET

FIGURE 17 GROWING EFFORTS TOWARD IMPROVING PERFORMANCE OF ELECTRIC VEHICLES TO DRIVE THE IN-WHEEL MOTOR MARKET

4.2 IN-WHEEL MOTOR MARKET, BY POWER OUTPUT

FIGURE 18 UP TO 60 KW SEGMENT EXPECTED TO LEAD THE MARKET

4.3 IN-WHEEL MOTOR MARKET, BY MOTOR TYPE

FIGURE 19 RADIAL FLUX MOTOR EXPECTED TO HOLD LARGER MARKET SHARE

4.4 IN-WHEEL MOTOR MARKET, BY PROPULSION TYPE

FIGURE 20 BEV EXPECTED TO DOMINATE THE MARKET DURING FORECAST PERIOD

4.5 IN-WHEEL MOTOR MARKET, BY VEHICLE TYPE

FIGURE 21 PASSENGER CARS EXPECTED TO LEAD MARKET

4.6 IN-WHEEL MOTOR MARKET, BY REGION

FIGURE 22 ASIA PACIFIC ESTIMATED TO HOLD LARGEST SHARE OF IN-WHEEL MOTOR MARKET IN 2021 (UNITS)

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 23 IN-WHEEL MOTOR MARKET DYNAMICS**5.2.1 DRIVERS**

- 5.2.1.1 Improved dynamics, increased simplicity, and efficiency of vehicles
- 5.2.1.2 Reduced weight and provides more space
- 5.2.1.3 Increase in investments & rise in mergers & acquisitions
- 5.2.1.4 Increasing penetration of electric vehicles globally

FIGURE 24 GLOBAL EV AND BEV PASSENGER CAR SALES**5.2.2 RESTRAINTS**

- 5.2.2.1 Increase in unsprung weight in wheels
- 5.2.2.2 Inability to mount on conventional vehicles

5.2.3 OPPORTUNITIES

- 5.2.3.1 Change in the regulatory environment globally

TABLE 2 CHANGE IN REGULATORY ENVIRONMENT GLOBALLY

- 5.2.3.2 Rising opportunities for commercial and off-highway electric vehicles
- 5.2.3.3 Rising trend of autonomous technology in vehicles

TABLE 3 AUTONOMOUS VEHICLE DEVELOPMENTS**5.2.4 CHALLENGES**

- 5.2.4.1 High costs
- 5.2.4.2 Complexity in controlling individual wheel speed
- 5.2.4.3 Rise in incidents of failure

TABLE 4 IMPACT OF MARKET DYNAMICS ON IN-WHEEL MOTOR MARKET**5.3 PORTER'S FIVE FORCES ANALYSIS****FIGURE 25 PORTER'S FIVE FORCES ANALYSIS: CONSISTENT EFFORTS FOR PRODUCT IMPROVEMENT INCREASES THE DEGREE OF COMPETITION****TABLE 5 IN-WHEEL MOTOR MARKET: IMPACT OF PORTERS FIVE FORCES**

- 5.3.1 THREAT OF SUBSTITUTES
- 5.3.2 THREAT OF NEW ENTRANTS
- 5.3.3 BARGAINING POWER OF BUYERS
- 5.3.4 BARGAINING POWER OF SUPPLIERS
- 5.3.5 RIVALRY AMONG EXISTING COMPETITORS

5.4 SUPPLY CHAIN ANALYSIS**FIGURE 26 IN-WHEEL MOTOR MARKET: SUPPLY CHAIN ANALYSIS**

- 5.4.1 IN-WHEEL MOTOR MANUFACTURERS
- 5.4.2 COMPONENT MANUFACTURERS
- 5.4.3 OEMS

5.5 ECOSYSTEM**FIGURE 27 IN-WHEEL MOTOR MARKET: ECOSYSTEM****TABLE 6 IN-WHEEL MOTOR MARKET: ROLE OF COMPANIES IN ECOSYSTEM****5.6 TECHNOLOGY ANALYSIS**

5.6.1 INTRODUCTION

5.6.2 IN-WHEEL MOTOR WITH 360 DEGREE STEERING

FIGURE 28 360-DEGREE CORNER MODULE

5.6.3 IN-WHEEL MODULAR PLATFORM WITH SOFTWARE INTEGRATION

5.6.4 INDEPENDENT WHEEL TORQUE CONTROL

5.7 PRICING ANALYSIS

FIGURE 29 IN-WHEEL MOTOR MARKET: APPROXIMATE PRICE OF MOTORS BY YEAR

FIGURE 30 EV POWERTRAIN COST BREAKDOWN IN 2025 (ESTIMATE)

5.8 PATENT ANALYSIS

5.9 CASE STUDIES

5.9.1 ELECTRIC PICK-UP TRUCKS EQUIPPED WITH IN-WHEEL MOTORS BY LORDSTOWN MOTORS

5.9.2 ELAPHE'S L1500 IN-WHEEL MOTORS

5.9.3 LEXUS LF-30 CONCEPT CAR WITH IN-WHEEL MOTOR

5.9.4 NISSAN BLADEGLIDER EQUIPPED WITH TWO IN-WHEEL MOTORS

5.10 COVID-19 HEALTH ASSESSMENT

FIGURE 31 COVID-19: GLOBAL PROPAGATION

FIGURE 32 COVID-19 PROPAGATION: SELECT COUNTRIES

5.11 COVID-19 ECONOMIC ASSESSMENT

FIGURE 33 REVISED GROSS DOMESTIC PRODUCT FORECASTS FOR SELECT G20 COUNTRIES IN 2020

5.11.1 COVID-19 ECONOMIC IMPACT—SCENARIO ASSESSMENT

FIGURE 34 CRITERIA IMPACTING GLOBAL ECONOMY

FIGURE 35 SCENARIOS IN TERMS OF RECOVERY OF GLOBAL ECONOMY

5.12 IN-WHEEL MOTOR MARKET: COVID-19 IMPACT

5.12.1 IMPACT ON RAW MATERIAL SUPPLY

5.12.2 IMPACT ON EV DEMAND

5.12.3 OEM ANNOUNCEMENTS

TABLE 7 OEM ANNOUNCEMENTS

5.13 IN-WHEEL MOTOR MARKET SCENARIO ANALYSIS

FIGURE 36 IMPACT OF COVID-19 ON IN-WHEEL MOTOR MARKET

5.13.1 IN-WHEEL MOTOR MARKET - MOST LIKELY SCENARIO

TABLE 8 IN-WHEEL MOTOR MARKET (MOST LIKELY SCENARIO), BY REGION, 2021–2026 (UNITS)

5.13.2 IN-WHEEL MOTOR MARKET - OPTIMISTIC SCENARIO

TABLE 9 IN-WHEEL MOTOR MARKET (OPTIMISTIC), BY REGION, 2021–2026 (UNITS)

5.13.3 IN-WHEEL MOTOR MARKET – PESSIMISTIC SCENARIO

TABLE 10 IN-WHEEL MOTOR MARKET (PESSIMISTIC), BY REGION, 2021–2026 (UNITS)

5.14 IN-WHEEL MOTOR MARKET: TRENDS/DISRUPTIONS IMPACTING BUYERS
FIGURE 37 KEY FUTURE TRENDS/DISRUPTIONS EXPECTED TO IMPACT THE IN-WHEEL MOTOR MARKET

6 IN-WHEEL MOTOR MARKET, BY COMPONENT

6.1 INTRODUCTION

6.2 SUSPENSION

6.3 ROTOR AND STATOR

6.4 WHEEL BEARINGS

6.5 REGENERATIVE BRAKING SYSTEM

7 IN-WHEEL MOTOR MARKET, BY MOTOR WEIGHT

7.1 INTRODUCTION

7.2 OPERATIONAL DATA

7.3 LESS THAN 20 KG

7.4 20-30 KG

7.5 ABOVE 30 KG

8 IN-WHEEL MOTOR MARKET, BY COOLING TYPE

8.1 INTRODUCTION

TABLE 11 IN-WHEEL MOTOR MARKET, BY COOLING TYPE, 2018–2020 (UNITS)

TABLE 12 IN-WHEEL MOTOR MARKET, BY COOLING TYPE, 2021–2026 (UNITS)

FIGURE 38 LIQUID-COOLED IN-WHEEL MOTOR SEGMENT IS EXPECTED TO GROW AT A HIGHER CAGR DURING FORECAST PERIOD

8.2 OPERATIONAL DATA

TABLE 13 IN-WHEEL MOTOR OFFERING, BY COOLING TYPE

8.3 ASSUMPTIONS

TABLE 14 ASSUMPTIONS: BY COOLING TYPE

8.4 RESEARCH METHODOLOGY

8.5 AIR-COOLED IN-WHEEL MOTOR

8.5.1 ANTICIPATED GROWTH IN LOW POWERED COMPACT EVS TO DRIVE THE AIR-COOLED IN-WHEEL MOTOR SEGMENT

TABLE 15 AIR-COOLED IN-WHEEL MOTOR MARKET, BY REGION, 2018–2020 (UNITS)

TABLE 16 AIR-COOLED IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026
(UNITS)

8.6 LIQUID-COOLED IN-WHEEL MOTOR

8.6.1 CONSISTENT IMPROVEMENT IN EV POWER EXPECTED TO BOOST THE
GROWTH OF LIQUID-COOLED IN-WHEEL MOTORS

TABLE 17 LIQUID-COOLED IN-WHEEL MOTOR MARKET, BY REGION, 2018–2020
(UNITS)

TABLE 18 LIQUID-COOLED IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026
(UNITS)

8.7 KEY PRIMARY INSIGHTS

9 IN-WHEEL MOTOR MARKET, BY MOTOR TYPE

9.1 INTRODUCTION

TABLE 19 IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2018–2020 (UNITS)

TABLE 20 IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2021–2026 (UNITS)

FIGURE 39 RADIAL FLUX MOTOR EXPECTED TO LEAD THE IN-WHEEL MOTOR
MARKET DURING THE FORECAST PERIOD

9.2 OPERATIONAL DATA

TABLE 21 IN-WHEEL MOTOR TYPES

9.3 ASSUMPTIONS

TABLE 22 ASSUMPTIONS: BY MOTOR TYPE

9.4 RESEARCH METHODOLOGY

9.5 AXIAL FLUX MOTOR

9.5.1 AXIAL FLUX MOTOR SEGMENT TO BE DRIVEN BY GROWING INCLINATION
TOWARD COMPACT EVS

TABLE 23 AXIAL FLUX IN-WHEEL MOTOR MARKET, BY REGION, 2018–2020
(UNITS)

TABLE 24 AXIAL FLUX IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026
(UNITS)

9.6 RADIAL FLUX MOTOR

9.6.1 RADIAL FLUX IN-WHEEL MOTORS TO REMAIN A LARGER SEGMENT DUE
TO THEIR HIGHER EFFICIENCY

TABLE 25 RADIAL FLUX IN-WHEEL MOTOR MARKET, BY REGION, 2018–2020
(UNITS)

TABLE 26 RADIAL FLUX IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026
(UNITS)

9.7 KEY PRIMARY INSIGHTS

10 IN-WHEEL MOTOR MARKET, BY POWER OUTPUT

10.1 INTRODUCTION

TABLE 27 IN-WHEEL MOTOR MARKET, BY POWER OUTPUT, 2018–2020 (UNITS)

TABLE 28 IN-WHEEL MOTOR MARKET, BY POWER OUTPUT, 2021–2026 (UNITS)

FIGURE 40 IN-WHEEL MOTORS HAVING POWER OUTPUT UP TO 60 KW
EXPECTED

TO BE THE LARGEST SEGMENT FROM 2021–2026

10.2 OPERATIONAL DATA

10.3 ASSUMPTIONS

TABLE 29 ASSUMPTIONS: BY POWER OUTPUT

10.4 RESEARCH METHODOLOGY

10.5 UP TO 60 KW

10.5.1 AVAILABILITY OF A LARGE NUMBER OF VEHICLES WITH POWER
OUTPUT UP

TO 60 KW DRIVE THIS SEGMENT

TABLE 30 UP TO 60 KW IN-WHEEL MOTOR MARKET, BY REGION, 2018–2020
(UNITS)

TABLE 31 UP TO 60 KW IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026
(UNITS)

10.6 60-90 KW

10.6.1 ELECTRIC BUSES AND PICK-UP TRUCKS TO EMERGE AS PROMISING
APPLICATIONS OF 60-90 KW MOTORS

TABLE 32 60-90 KW IN-WHEEL MOTOR MARKET, BY REGION, 2018–2020 (UNITS)

TABLE 33 60-90 KW IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026 (UNITS)

10.7 ABOVE 90 KW

10.7.1 INCREASING DEVELOPMENT OF HIGH-PERFORMANCE ELECTRIC
VEHICLES WILL BOOST THE SEGMENT

TABLE 34 ABOVE 90 KW IN-WHEEL MOTOR MARKET, BY REGION, 2018–2020
(UNITS)

TABLE 35 ABOVE 90 KW IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026
(UNITS)

10.8 KEY PRIMARY INSIGHTS

11 IN-WHEEL MOTOR MARKET, BY PROPULSION TYPE

11.1 INTRODUCTION

TABLE 36 IN-WHEEL MOTOR MARKET, BY PROPULSION TYPE, 2018–2020
(UNITS)

TABLE 37 IN-WHEEL MOTOR MARKET, BY PROPULSION TYPE, 2021–2026
(UNITS)

FIGURE 41 BEV SEGMENT IS EXPECTED TO LEAD IN-WHEEL MOTOR MARKET
FROM 2021–2026

11.2 OPERATIONAL DATA

TABLE 38 POPULAR EVS ACROSS THE WORLD: UNIT SALES, 2020

11.3 ASSUMPTIONS

TABLE 39 ASSUMPTIONS: BY PROPULSION TYPE

11.4 RESEARCH METHODOLOGY

11.5 BATTERY ELECTRIC VEHICLE (BEV)

11.5.1 HIGH BEV SALES WORLDWIDE TO SUPPORT THE GROWTH OF THIS
SEGMENT

TABLE 40 BEV IN-WHEEL MOTOR MARKET, BY REGION, 2018–2020 (UNITS)

TABLE 41 BEV IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026 (UNITS)

11.6 FUEL CELL ELECTRIC VEHICLE (FCEV)

11.6.1 GROWING GOVERNMENT INITIATIVES TOWARD FUEL CELL
DEVELOPMENT EXPECTED TO BOOST DEMAND

TABLE 42 FCEV IN-WHEEL MOTOR MARKET, BY REGION, 2018–2020 (UNITS)

TABLE 43 FCEV IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026 (UNITS)

11.7 HYBRID ELECTRIC VEHICLE (HEV)

11.7.1 HIGHER EFFICIENCY & RELIABILITY OF HEVS DRIVE THEIR DEMAND

TABLE 44 HEV IN-WHEEL MOTOR MARKET, BY REGION, 2018–2020 (UNITS)

TABLE 45 HEV IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026 (UNITS)

11.8 PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

11.8.1 HIGH ELECTRIC RANGE OF PHEVS WILL DRIVE THE MARKET
SIGNIFICANTLY

TABLE 46 PHEV IN-WHEEL MOTOR MARKET, BY REGION, 2018–2020 (UNITS)

TABLE 47 PHEV IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026 (UNITS)

11.9 KEY PRIMARY INSIGHTS

12 IN-WHEEL MOTOR MARKET, BY VEHICLE TYPE

12.1 INTRODUCTION

TABLE 48 IN-WHEEL MOTOR MARKET, BY VEHICLE TYPE, 2018–2020 (UNITS)

TABLE 49 IN-WHEEL MOTOR MARKET, BY VEHICLE TYPE, 2021–2026 (UNITS)

TABLE 50 IN-WHEEL MOTOR MARKET, BY VEHICLE TYPE, 2018–2020 (USD
MILLION)

TABLE 51 IN-WHEEL MOTOR MARKET, BY VEHICLE TYPE, 2021–2026 (USD
MILLION)

FIGURE 42 PASSENGER CARS SEGMENT EXPECTED TO LEAD THE MARKET FOR IN-WHEEL MOTORS DURING FORECAST PERIOD

12.2 OPERATIONAL DATA

TABLE 52 EUROPE: ELECTRIC VEHICLE SALES, BY VEHICLE TYPE, 2018–2020 (UNITS)

TABLE 53 ASIA PACIFIC: ELECTRIC VEHICLE SALES, BY VEHICLE TYPE, 2018–2020 (UNITS)

TABLE 54 NORTH AMERICA: ELECTRIC VEHICLE SALES, BY VEHICLE TYPE, 2018–2020 (UNITS)

12.3 ASSUMPTIONS

TABLE 55 ASSUMPTIONS: VEHICLE TYPE

12.4 RESEARCH METHODOLOGY

12.5 PASSENGER CARS (PC)

12.5.1 HIGH PASSENGER CAR SALES WORLDWIDE TO ENSURE THE DOMINANCE OF THIS SEGMENT

TABLE 56 PASSENGER CARS IN-WHEEL MOTOR MARKET, BY REGION, 2018–2020 (UNITS)

TABLE 57 PASSENGER CARS IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026 (UNITS)

TABLE 58 PASSENGER CARS IN-WHEEL MOTOR MARKET, BY REGION, 2018–2020 (USD MILLION)

TABLE 59 PASSENGER CARS IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026 (USD MILLION)

12.6 COMMERCIAL VEHICLES (CV)

12.6.1 HIGHER PENETRATION OF IN-WHEEL MOTORS IN COMMERCIAL VEHICLES

TO DRIVE THE SEGMENT GROWTH

TABLE 60 COMMERCIAL VEHICLES IN-WHEEL MOTOR MARKET, BY REGION, 2018–2020 (UNITS)

TABLE 61 COMMERCIAL VEHICLES IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026 (UNITS)

TABLE 62 COMMERCIAL VEHICLES IN-WHEEL MOTOR MARKET, BY REGION, 2018–2020 (USD MILLION)

TABLE 63 COMMERCIAL VEHICLES IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026 (USD MILLION)

12.7 KEY PRIMARY INSIGHTS

13 IN-WHEEL MOTOR MARKET, BY VEHICLE CLASS

13.1 INTRODUCTION

TABLE 64 IN-WHEEL MOTOR MARKET, BY VEHICLE CLASS, 2018–2020 (UNITS)

TABLE 65 IN-WHEEL MOTOR MARKET, BY VEHICLE CLASS, 2021–2026 (UNITS)

FIGURE 43 MID-PRICED SEGMENT EXPECTED TO LEAD IN-WHEEL MOTOR MARKET DURING FORECAST PERIOD

13.2 OPERATIONAL DATA

TABLE 66 POPULAR EVS ACROSS THE WORLD, BY VEHICLE CLASS

13.3 ASSUMPTIONS

TABLE 67 ASSUMPTIONS: BY VEHICLE CLASS

13.4 RESEARCH METHODOLOGY

13.5 MID-PRICED

13.6 LUXURY

13.7 KEY PRIMARY INSIGHTS

14 IN-WHEEL MOTOR MARKET, BY REGION

14.1 INTRODUCTION

FIGURE 44 IN-WHEEL MOTOR MARKET, BY REGION, 2021 VS. 2026

TABLE 68 IN-WHEEL MOTOR MARKET, BY REGION, 2018–2020 (UNITS)

TABLE 69 IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026 (UNITS)

TABLE 70 IN-WHEEL MOTOR MARKET, BY REGION, 2018–2020 (USD MILLION)

TABLE 71 IN-WHEEL MOTOR MARKET, BY REGION, 2021–2026 (USD MILLION)

14.2 ASIA PACIFIC

FIGURE 45 CHINA EXPECTED TO LEAD IN-WHEEL MOTOR MARKET IN ASIA PACIFIC DURING FORECAST PERIOD

TABLE 72 ASIA PACIFIC: IN-WHEEL MOTOR MARKET, BY COUNTRY, 2018–2020 (UNITS)

TABLE 73 ASIA PACIFIC IN-WHEEL MOTOR MARKET, BY COUNTRY, 2021–2026 (UNITS)

TABLE 74 ASIA PACIFIC: IN-WHEEL MOTOR MARKET, BY COUNTRY, 2018–2020 (USD MILLION)

TABLE 75 ASIA PACIFIC: IN-WHEEL MOTOR MARKET, BY COUNTRY, 2021–2026 (USD MILLION)

14.2.1 CHINA

14.2.1.1 High adoption of EVs and focused electrification of public transport to boost the market growth in China

TABLE 76 CHINA: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2018–2020 (UNITS)

TABLE 77 CHINA: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2021–2026

(UNITS)

14.2.2 INDIA

14.2.2.1 Change in the regulatory environment and fall in EV costs to push the growth of in-wheel motor market in India

TABLE 78 INDIA: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2021–2026

(UNITS)

14.2.3 JAPAN

14.2.3.1 Japan to experience growth of in-wheel motor market with an increase in the sale of electric vehicles

TABLE 79 JAPAN: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2018–2020

(UNITS)

TABLE 80 JAPAN: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2021–2026

(UNITS)

14.2.4 SOUTH KOREA

14.2.4.1 South Korea to experience growth of in-wheel motor market with rise in the sale of HEVs

TABLE 81 SOUTH KOREA: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2018–2020 (UNITS)

TABLE 82 SOUTH KOREA: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2021–2026 (UNITS)

14.3 EUROPE

FIGURE 46 GERMANY EXPECTED TO LEAD IN-WHEEL MOTOR MARKET IN EUROPE DURING FORECAST PERIOD

TABLE 83 EUROPE: IN-WHEEL MOTOR MARKET, BY COUNTRY, 2018–2020 (UNITS)

TABLE 84 EUROPE: IN-WHEEL MOTOR MARKET, BY COUNTRY, 2021–2026 (UNITS)

TABLE 85 EUROPE: IN-WHEEL MOTOR MARKET, BY COUNTRY, 2018–2020 (USD MILLION)

TABLE 86 EUROPE: IN-WHEEL MOTOR MARKET, BY COUNTRY, 2021–2026 (USD MILLION)

14.3.1 FRANCE

14.3.1.1 Government offering purchase grants projected to boost market

TABLE 87 FRANCE: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2018–2020 (UNITS)

TABLE 88 FRANCE: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2021–2026 (UNITS)

14.3.2 GERMANY

14.3.2.1 Rising sales of hybrid vehicles by domestic players expected to drive the

market

TABLE 89 GERMANY: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2018–2020 (UNITS)

TABLE 90 GERMANY: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2021–2026 (UNITS)

14.3.3 SPAIN

14.3.3.1 Improvement in the EV infrastructure to boost the market

TABLE 91 SPAIN: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2018–2020 (UNITS)

TABLE 92 SPAIN: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2021–2026 (UNITS)

14.3.4 THE NETHERLANDS

14.3.4.1 Government focus towards greener vehicles to drive the market

TABLE 93 NETHERLANDS: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2018–2020 (UNITS)

TABLE 94 NETHERLANDS: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2021–2026 (UNITS)

14.3.5 NORWAY

14.3.5.1 Emergence of e-mobility and high EV adoption rate to boost demand

TABLE 95 NORWAY: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2018–2020 (UNITS)

TABLE 96 NORWAY: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2021–2026 (UNITS)

14.3.6 SWEDEN

14.3.6.1 Government incentives and subsidies to drive the market

TABLE 97 SWEDEN: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2018–2020 (UNITS)

TABLE 98 SWEDEN: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2021–2026 (UNITS)

14.3.7 UK

14.3.7.1 Investments in ultra-low emission vehicles will boost the demand for in-wheel motors

TABLE 99 UK: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2018–2020 (UNITS)

TABLE 100 UK: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2021–2026 (UNITS)

14.4 NORTH AMERICA

TABLE 101 NORTH AMERICA: IN-WHEEL MOTOR MARKET, BY COUNTRY, 2018–2020 (UNITS)

TABLE 102 NORTH AMERICA: IN-WHEEL MOTOR MARKET, BY COUNTRY, 2021–2026 (UNITS)

TABLE 103 NORTH AMERICA: IN-WHEEL MOTOR MARKET, BY COUNTRY, 2018–2020 (USD MILLION)

TABLE 104 NORTH AMERICA: IN-WHEEL MOTOR MARKET, BY COUNTRY, 2021–2026 (USD MILLION)

14.4.1 CANADA

14.4.1.1 Increasing development in electric vehicle infrastructure is expected to boost the in-wheel motor market

TABLE 105 CANADA: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2018–2020 (UNITS)

TABLE 106 CANADA: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2021–2026 (UNITS)

14.4.2 US

14.4.2.1 Robust growth of the EV market will fuel the demand for in-wheel motors

TABLE 107 US: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2018–2020 (UNITS)

TABLE 108 US: IN-WHEEL MOTOR MARKET, BY MOTOR TYPE, 2021–2026 (UNITS)

15 RECOMMENDATIONS BY MARKET SAND MARKETS

15.1 ASIA PACIFIC IS THE KEY MARKET FOR IN-WHEEL MOTORS

15.2 UP TO 60 KW TO REMAIN THE MOST LUCRATIVE SEGMENT FOR IN-WHEEL MOTORS

15.3 CONCLUSION

16 COMPETITIVE LANDSCAPE

16.1 OVERVIEW

FIGURE 47 KEY DEVELOPMENTS BY LEADING PLAYERS IN IN-WHEEL MOTOR MARKET FROM 2018–2021

16.2 MARKET RANKING ANALYSIS

FIGURE 48 IN-WHEEL MOTOR MARKET: MARKET RANKING ANALYSIS

16.3 COMPETITIVE SCENARIO

16.3.1 NEW PRODUCT LAUNCHES

TABLE 109 NEW PRODUCT LAUNCHES, 2018–2021

16.3.2 DEALS

TABLE 110 DEALS, 2018–2021

16.3.3 OTHERS

TABLE 111 OTHERS, 2018–2021

16.4 COMPANY EVALUATION QUADRANT

16.4.1 STARS

16.4.2 EMERGING LEADERS

16.4.3 PERVASIVE

16.4.4 PARTICIPANTS

FIGURE 49 IN-WHEEL MOTOR MARKET: COMPANY EVALUATION QUADRANT, 2020

TABLE 112 IN-WHEEL MOTOR MARKET: COMPANY FOOTPRINT, 2020

TABLE 113 IN-WHEEL MOTOR MARKET: REGION FOOTPRINT, 2020

TABLE 114 COMPANY VEHICLE TYPE FOOTPRINT (7 COMPANIES)

16.5 WINNERS VS. TAIL-ENDERS

TABLE 115 WINNERS VS. TAIL-ENDERS

17 COMPANY PROFILES

(Overview, Product offerings, Recent developments & MnM View)*

17.1 KEY COMPANIES

17.1.1 NEVS (PROTEAN ELECTRIC)

TABLE 116 NEVS: BUSINESS OVERVIEW

TABLE 117 NEVS: PRODUCTS OFFERED

TABLE 118 NEVS: DEALS

TABLE 119 NEVS: OTHERS

17.1.2 PRINTED MOTOR WORKS

TABLE 120 PRINTED MOTOR WORKS: BUSINESS OVERVIEW

TABLE 121 PRINTED MOTOR WORKS: PRODUCTS OFFERED

TABLE 122 PRINTED MOTOR WORKS: NEW PRODUCT DEVELOPMENTS

17.1.3 ZIEHL-ABEGG

TABLE 123 ZIEHL-ABEGG: BUSINESS OVERVIEW

TABLE 124 ZIEHL-ABEGG: PRODUCTS OFFERED

TABLE 125 ZIEHL- ABEGG: OTHERS

17.1.4 ELAPHE

TABLE 126 ELAPHE: BUSINESS OVERVIEW

TABLE 127 ELAPHE: PRODUCTS OFFERED

TABLE 128 ELAPHE: PRODUCT LAUNCHES

TABLE 129 ELAPHE: DEALS

17.1.5 SCHAEFFLER

TABLE 130 SCHAEFFLER: BUSINESS OVERVIEW

FIGURE 50 SCHAEFFLER: COMPANY SNAPSHOT

TABLE 131 SCHAEFFLER: PRODUCTS OFFERED

TABLE 132 SCHAEFFLER: DEALS

17.1.6 NSK LTD.

TABLE 133 NSK LTD: BUSINESS OVERVIEW

FIGURE 51 NSK LTD.: COMPANY SNAPSHOT

TABLE 134 NSK: PRODUCTS OFFERED

TABLE 135 NSK: PRODUCT LAUNCHES

17.1.7 ECOMOVE

TABLE 136 ECOMOVE: BUSINESS OVERVIEW

TABLE 137 ECOMOVE: PRODUCTS OFFERED

17.1.8 TAJIMA EV

TABLE 138 TAJIMA EV: BUSINESS OVERVIEW

17.1.9 YASA

TABLE 139 YASA: BUSINESS OVERVIEW

TABLE 140 YASA: PRODUCTS OFFERED

17.1.10 NTN

TABLE 141 NTN: BUSINESS OVERVIEW

FIGURE 52 NTN: COMPANY SNAPSHOT

TABLE 142 NTN: PRODUCTS OFFERED

TABLE 143 NTN: PRODUCT LAUNCHES

TABLE 144 NTN: DEALS

17.1.11 E-TRACTION

TABLE 145 E-TRACTION: BUSINESS OVERVIEW

TABLE 146 E-TRACTION: PRODUCTS OFFERED

17.1.12 TM4

TABLE 147 TM4: BUSINESS OVERVIEW

TABLE 148 TM4: PRODUCTS OFFERED

17.1.13 GEMMOTORS

TABLE 149 GEMMOTORS: BUSINESS OVERVIEW

TABLE 150 GEMMOTORS: PRODUCTS OFFERED

*Details on Overview, Product offerings, Recent developments & MnM View might not be captured in case of unlisted companies.

17.2 OTHER KEY PLAYERS

17.2.1 GENERAL MOTORS

TABLE 151 GENERAL MOTORS: BUSINESS OVERVIEW

17.2.2 TESLA

TABLE 152 TESLA: BUSINESS OVERVIEW

17.2.3 FORD MOTOR COMPANY

TABLE 153 FORD MOTOR COMPANY: BUSINESS OVERVIEW

17.2.4 VOLKSWAGEN

TABLE 154 VOLKSWAGEN: BUSINESS OVERVIEW

17.2.5 BMW

TABLE 155 BMW: BUSINESS OVERVIEW

17.2.6 DAIMLER

TABLE 156 DAIMLER AG: BUSINESS OVERVIEW

17.2.7 VOLVO

TABLE 157 VOLVO: BUSINESS OVERVIEW

17.2.8 MITSUBISHI MOTORS

TABLE 158 MITSUBISHI MOTORS: BUSINESS OVERVIEW

17.2.9 TOYOTA

TABLE 159 TOYOTA: BUSINESS OVERVIEW

17.2.10 HONDA

TABLE 160 HONDA: BUSINESS OVERVIEW

17.2.11 HYUNDAI

TABLE 161 HYUNDAI: BUSINESS OVERVIEW

17.2.12 NISSAN

TABLE 162 NISSAN: BUSINESS OVERVIEW

18 APPENDIX

18.1 KEY INSIGHTS OF INDUSTRY EXPERTS

18.2 DISCUSSION GUIDE

18.3 KNOWLEDGE STORE: MARKET SAND MARKETS' SUBSCRIPTION PORTAL

18.4 AVAILABLE CUSTOMIZATIONS

18.5 RELATED REPORTS

18.6 AUTHOR DETAILS

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