

Brushless DC Motors Market by Rotor Type (Inner Rotor Brushless DC Motors and Outer Rotor Brushless DC Motors), Power Range (0-750 W, 750 W to 3 KW, and More than 3 KW), and End User (Industrial Machinery, Automotive, Healthcare, HVAC Industry, and Others): Global Opportunity Analysis and Industry Forecast, 2021–2028

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Abstracts

The global brushless DC motor market size is expected to reach \$68,836.2 million in 2028, from \$35,158.6 million in 2020, growing at a CAGR of 8.5% from 2021 to 2028. Brushless DC motor is a synchronous DC motor powered by a DC power source. These motors are highly efficient in generating a large amount of torque over a wide speed range. They have permanent magnets on the outside and a spinning armature on the inside. The permanent magnets rotate around the fixed armature, which is called the rotor. The rotor moves 180-degrees when an electric current is connected to the armature. The brushes act as the rotor spins, which contacts the stator, allowing the rotor to spin to a full of 360-degrees by flipping the magnetic field.

The features of brushless DC motors such as enhanced speed torque, high efficiency, reliability, durability, and outstanding controllability boost its adoption in many industrial applications. Rise in demand for electric vehicles from developing countries, increase in demand for HVAC applications, and surge in robotics technology are some of the key factors that fuel the market growth. However, factors such as slow-down in the automotive industry and high initial cost of investment and complexity restrain the market growth. Furthermore, growth in industrial robotics technology and transition of global automotive industry toward electric vehicles are expected to offer lucrative growth opportunities for the brushless DC motors market during the forecast period.

The global brushless DC motor market is segmented on the basis of rotor type, power range, end user, and region. By rotor type, it is bifurcated into inner rotor brushless DC motors and outer rotor brushless DC motors. The inner rotor brushless DC motors segment is anticipated to dominate the global brushless DC motor market in the future, owing to its adoption in industrial robots due to rising trend toward automation and technical improvements in industrial robots. By power range, the market is divided into 0-750 W, 750 W to 3 KW, and more than 3 KW. 0-750 W segment is anticipated to dominate the market, owing to large adoption of brushless DC motors in automotive, healthcare, and others sectors. By end user, it is divided into industrial machinery, automotive, healthcare, HVAC industry, and others. Others include consumer electronic products, automation, aerospace & defense, energy, and robotics. The industrial machinery segment is projected to dominate the global brushless DC motor market during the forecast period.

The global brushless DC motor market is analyzed across four geographical regions, which include North America (the U.S., Canada, and Mexico), Europe (Germany, France, the UK, Italy, Spain, and the Rest of Europe), Asia-Pacific (Japan, China, South Korea, India, Australia, and the Rest of Asia-Pacific), and LAMEA (Brazil, Argentina, GCC, South Africa, and Rest of LAMEA). Asia-Pacific is expected to hold the largest market share during the forecast period and is expected to grow at a significant CAGR.

COMPETITION ANALYSIS

The key players operating in the global brushless DC motor market include Allied Motion Technologies Inc., AMETEK Inc., Arc Systems Inc., Buhler Motor GmbH, Faulhaber Group, Johnson Electric Holdings Limited, Maxon motors AG, MinebeaMitsumi Inc., Nidec Corporation, and Oriental Motor Co. Ltd.

KEY BENEFITS FOR STAKEHOLDERS

The report provides an extensive analysis of the current trends and future estimations.

Extensive analysis of global brushless DC motors market is conducted by following key product positioning and monitoring of the top competitors within the market framework.

A comprehensive analysis of all the regions is provided to

determine the prevailing opportunities.

The global brushless DC motors market forecast analysis from 2021 to 2028 is included in the report.

The key market players within the global brushless DC motors market are profiled in this report and their strategies are analyzed thoroughly, which help understand the competitive outlook of the global brushless DC motors market.

GLOBAL BRUSHLESS DC MOTORS MARKET SEGMENTS

By Rotor Type

Inner Rotor Brushless DC Motors

Outer Rotor Brushless DC Motors

By Power Range

0-750 W

750 W to 3 KW

More than 3 KW

By End User

Industrial Machinery

Automotive

Healthcare

HVAC Industry

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

China

Japan

India

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Argentina

GCC

South Africa

Rest of LAMEA

KEY PLAYERS

Allied Motion Technologies Inc.

AMETEK Inc.

Arc Systems Inc

Buhler Motor GmbH

Faulhaber Group

Johnson Electric Holdings Limited

Maxon motors AG

MinebeaMitsumi Inc.

Nidec Corporation

Oriental Motor Co. Ltd.

Contents

CHAPTER 1:INTRODUCTION

- 1.1.Report description
- 1.2.Key benefits for stakeholders
- 1.3.Key market segments
- 1.4.Research methodology
 - 1.4.1.Primary research
 - 1.4.2.Secondary research
 - 1.4.3.Analyst tools and models

CHAPTER 2:EXECUTIVE SUMMARY

- 2.1.Key findings
 - 2.1.1.Top impacting factors
 - 2.1.2.Top investment pockets
- 2.2.CXO perspective

CHAPTER 3:MARKET OVERVIEW

- 3.1.Market definition and scope
- 3.2.Parent/Peer Market Overview
- 3.3.Key Forces Shaping Brushless DC Motors Market
- 3.4.Value Chain Analysis
- 3.5.Market dynamics
 - 3.5.1.Drivers
 - 3.5.1.1.Higher advantages of brushless DC Motors
 - 3.5.1.2.Growth in use of brushless DC motors in HVAC end users
 - 3.5.1.3.High use of brushless DC motors as servomotors
 - 3.5.2.Restraints
 - 3.5.2.1.Downshift in the automotive industry
 - 3.5.2.2.High initial cost of investment and complexity
 - 3.5.3.Opportunities
 - 3.5.3.1.Use of brushless DC motors for robots
 - 3.5.3.2.Use of brushless DC motors for robots
- 3.6.COVID-19 Impact Analysis

CHAPTER 4:BRUSHLESS DC MOTORS MARKET, BY ROTOR TYPE

Brushless DC Motors Market by Rotor Type (Inner Rotor Brushless DC Motors and Outer Rotor Brushless DC Motors)...

4.1.Overview

4.1.1.Market size and forecast, by rotor type

4.2.Inner Rotor Brushless DC Motors

4.2.1.Key market trends, growth factors, and opportunities

4.2.2.Market size and forecast, by region

4.2.3.Market analysis, by country

4.3.Outer Rotor Brushless DC Motors

4.3.1.Key market trends, growth factors, and opportunities

4.3.2.Market size and forecast, by region

4.3.3.Market analysis, by country

CHAPTER 5:GLOBAL BRUSHLESS DC MOTORS MARKET, BY POWER RANGE

5.1.Overview

5.1.1.Market size and forecast, by power range

5.2.0-750 W

5.2.1.Key market trends, growth factors, and opportunities

5.2.2.Market size and forecast, by region

5.2.3.Market size and forecast, by country

5.3.750 W to 3 KW

5.3.1.Key market trends, growth factors, and opportunities

5.3.2.Market size and forecast, by region

5.3.3.Market size and forecast, by country

5.4.More than 3 KW

5.4.1.Key market trends, growth factors, and opportunities

5.4.2.Market size and forecast, by region

5.4.3.Market size and forecast, by country

CHAPTER 6:BRUSHLESS DC MOTORS MARKET, BY END USER

6.1.Overview

6.1.1.Market size and forecast, by power

6.2.Industrial Machinery

6.2.1.Key market trends, growth factors, and opportunities

6.2.2.Market size and forecast, by region

6.2.3.Market analysis, by country

6.3.Automotive

6.3.1.Key market trends, growth factors, and opportunities

- 6.3.2. Market size and forecast, by region
- 6.3.3. Market analysis, by country
- 6.4. Healthcare
 - 6.4.1. Key market trends, growth factors, and opportunities
 - 6.4.2. Market size and forecast, by region
 - 6.4.3. Market analysis, by country
- 6.5. HVAC industry
 - 6.5.1. Key market trends, growth factors, and opportunities
 - 6.5.2. Market size and forecast, by region
 - 6.5.3. Market analysis, by country
- 6.6. Others
 - 6.6.1. Key market trends, growth factors, and opportunities
 - 6.6.2. Market size and forecast, by region
 - 6.6.3. Market analysis, by country

CHAPTER 7: BRUSHLESS DC MOTORS MARKET, BY REGION

- 7.1. Market overview
 - 7.1.1. Market size and forecast
- 7.2. North America
 - 7.2.1. Key market trends, growth factors, and opportunities
 - 7.2.2. Market size and forecast, by rotor type
 - 7.2.3. Market size and forecast, by power range
 - 7.2.4. Market size and forecast, by end user
 - 7.2.5. Market analysis, by country
 - 7.2.5.1. U.S.
 - 7.2.5.1.1. Market size and forecast, by rotor type
 - 7.2.5.1.2. Market size and forecast, by power range
 - 7.2.5.1.3. Market size and forecast, by end user
 - 7.2.5.2. Canada
 - 7.2.5.2.1. Market size and forecast, by rotor type
 - 7.2.5.2.2. Market size and forecast, by power range
 - 7.2.5.2.3. Market size and forecast, by end user
 - 7.2.5.3. Mexico
 - 7.2.5.3.1. Market size and forecast, by rotor type
 - 7.2.5.3.2. Market size and forecast, by power range
 - 7.2.5.3.3. Market size and forecast, by end user
- 7.3. Europe
 - 7.3.1. Key market trends, growth factors, and opportunities

- 7.3.2. Market size and forecast, by rotor type
- 7.3.3. Market size and forecast, by power range
- 7.3.4. Market size and forecast, by end user
- 7.3.5. Market analysis, by country
 - 7.3.5.1. Germany
 - 7.3.5.1.1. Market size and forecast, by rotor type
 - 7.3.5.1.2. Market size and forecast, by power range
 - 7.3.5.1.3. Market size and forecast, by end user
 - 7.3.5.2. France
 - 7.3.5.2.1. Market size and forecast, by rotor type
 - 7.3.5.2.2. Market size and forecast, by power range
 - 7.3.5.2.3. Market size and forecast, by end user
 - 7.3.5.3. UK
 - 7.3.5.3.1. Market size and forecast, by rotor type
 - 7.3.5.3.2. Market size and forecast, by power range
 - 7.3.5.3.3. Market size and forecast, by end user
 - 7.3.5.4. Italy
 - 7.3.5.4.1. Market size and forecast, by rotor type
 - 7.3.5.4.2. Market size and forecast, by power range
 - 7.3.5.4.3. Market size and forecast, by end user
 - 7.3.5.5. Spain
 - 7.3.5.5.1. Market size and forecast, by rotor type
 - 7.3.5.5.2. Market size and forecast, by power range
 - 7.3.5.5.3. Market size and forecast, by end user
 - 7.3.5.6. Rest of Europe
 - 7.3.5.6.1. Market size and forecast, by rotor type
 - 7.3.5.6.2. Market size and forecast, by power range
 - 7.3.5.6.3. Market size and forecast, by end user
- 7.4. Asia-Pacific
 - 7.4.1. Key market trends, growth factors, and opportunities
 - 7.4.2. Market size and forecast, by rotor type
 - 7.4.3. Market size and forecast, by power range
 - 7.4.4. Market size and forecast, by end user
 - 7.4.5. Market size and forecast, by country
 - 7.4.5.1. Japan
 - 7.4.5.1.1. Market size and forecast, by rotor type
 - 7.4.5.1.2. Market size and forecast, by power range
 - 7.4.5.1.3. Market size and forecast, by end user
 - 7.4.5.2. China

- 7.4.5.2.1. Market size and forecast, by rotor type
- 7.4.5.2.2. Market size and forecast, by power range
- 7.4.5.2.3. Market size and forecast, by end user

7.4.5.3. India

- 7.4.5.3.1. Market size and forecast, by rotor type
- 7.4.5.3.2. Market size and forecast, by power range
- 7.4.5.3.3. Market size and forecast, by end user

7.4.5.4. South Korea

- 7.4.5.4.1. Market size and forecast, by rotor type
- 7.4.5.4.2. Market size and forecast, by power range
- 7.4.5.4.3. Market size and forecast, by end user

7.4.5.5. Australia

- 7.4.5.5.1. Market size and forecast, by rotor type
- 7.4.5.5.2. Market size and forecast, by power range
- 7.4.5.5.3. Market size and forecast, by end user

7.4.5.6. Rest of Asia-Pacific

- 7.4.5.6.1. Market size and forecast, by rotor type
- 7.4.5.6.2. Market size and forecast, by power range
- 7.4.5.6.3. Market size and forecast, by end user

7.5. LAMEA

7.5.1. Key market trends, growth factors, and opportunities

7.5.2. Market size and forecast, by rotor type

7.5.3. Market size and forecast, by power range

7.5.4. Market size and forecast, by end user

7.5.5. Market size and forecast, by country

7.5.5.1. Brazil

- 7.5.5.1.1. Market size and forecast, by rotor type
- 7.5.5.1.2. Market size and forecast, by power range
- 7.5.5.1.3. Market size and forecast, by end user

7.5.5.2. Argentina

- 7.5.5.2.1. Market size and forecast, by rotor type
- 7.5.5.2.2. Market size and forecast, by power range
- 7.5.5.2.3. Market size and forecast, by end user

7.5.5.3. GCC

- 7.5.5.3.1. Market size and forecast, by rotor type
- 7.5.5.3.2. Market size and forecast, by power range
- 7.5.5.3.3. Market size and forecast, by end user

7.5.5.4. South Africa

- 7.5.5.4.1. Market size and forecast, by rotor type

- 7.5.5.4.2. Market size and forecast, by power range
- 7.5.5.4.3. Market size and forecast, by end user
- 7.5.5.5. Rest of LAMEA
 - 7.5.5.5.1. Market size and forecast, by rotor type
 - 7.5.5.5.2. Market size and forecast, by power range
 - 7.5.5.5.3. Market size and forecast, by end user

CHAPTER 8: COMPETITIVE LANDSCAPE

- 8.1. Introduction
- 8.2. Key player positioning, 2020 (%)
- 8.3. Top winning strategies
 - 8.3.1. Top winning strategies, by year
 - 8.3.2. Top winning strategies, by development
 - 8.3.3. Top winning strategies, by company
- 8.4. Key developments
 - 8.4.1. New product launches
 - 8.4.2. Acquisitions

CHAPTER 9: COMPANY PROFILES

- 9.1. ALLIED MOTION TECHNOLOGIES INC.
 - 9.1.1. Company overview
 - 9.1.2. Key Executives
 - 9.1.3. Company snapshot
 - 9.1.4. Operating business segments
 - 9.1.5. Product portfolio
 - 9.1.6. R&D Expenditure
 - 9.1.7. Business performance
 - 9.1.8. Key strategic moves and developments
- 9.2. AMETEK INC.
 - 9.2.1. Company overview
 - 9.2.2. Key Executives
 - 9.2.3. Company snapshot
 - 9.2.4. Operating business segments
 - 9.2.5. Product portfolio
 - 9.2.6. R&D Expenditure
 - 9.2.7. Business performance
 - 9.2.8. Key strategic moves and developments

9.3.ARC SYSTEMS INC.

- 9.3.1.Company overview
- 9.3.2.Key Executives
- 9.3.3.Company snapshot
- 9.3.4.Operating business segments
- 9.3.5.Product portfolio

9.4.B?HLER MOTOR GmbH

- 9.4.1.Company overview
- 9.4.2.Key Executives
- 9.4.3.Company snapshot
- 9.4.4.Operating business segments
- 9.4.5.Product portfolio
- 9.4.6.Key strategic moves and developments

9.5.FAULHABER Group

- 9.5.1.Company overview
- 9.5.2.Key Executives
- 9.5.3.Company snapshot
- 9.5.4.Operating business segments
- 9.5.5.Product portfolio
- 9.5.6.Key strategic moves and developments

9.6.JOHNSON ELECTRIC HOLDINGS LIMITED

- 9.6.1.Company overview
- 9.6.2.Key Executives
- 9.6.3.Company snapshot
- 9.6.4.Operating business segments
- 9.6.5.Product portfolio
- 9.6.6.R&D Expenditure
- 9.6.7.Business performance
- 9.6.8.Key strategic moves and developments

9.7.MAXON MOTORS AG

- 9.7.1.Company overview
- 9.7.2.Key Executives
- 9.7.3.Company snapshot
- 9.7.4.Operating business segments
- 9.7.5.Product portfolio
- 9.7.6.Key strategic moves and developments

9.8.MINEBEAMITSUMI INC.

- 9.8.1.Company overview
- 9.8.2.Key Executives

- 9.8.3. Company snapshot
- 9.8.4. Operating business segments
- 9.8.5. Product portfolio
- 9.8.6. R&D Expenditure
- 9.8.7. Business performance
- 9.9. NIDEC CORPORATION
 - 9.9.1. Company overview
 - 9.9.2. Key Executives
 - 9.9.3. Company snapshot
 - 9.9.4. Operating business segments
 - 9.9.5. Product portfolio
 - 9.9.6. R&D Expenditure
 - 9.9.7. Business performance
 - 9.9.8. Key strategic moves and developments
- 9.10. ORIENTAL MOTOR CO. LTD.
 - 9.10.1. Company overview
 - 9.10.2. Key Executives
 - 9.10.3. Company snapshot
 - 9.10.4. Operating business segments
 - 9.10.5. Product portfolio
 - 9.10.6. Key strategic moves and developments

List Of Tables

LIST OF TABLES

- TABLE 01.GLOBAL BRUSHLESS DC MOTOR MARKET, BY ROTOR TYPE, 2020-2028 (\$MILLION)
- TABLE 02.BRUSHLESS DC MOTORS MARKET REVENUE FOR INNER ROTOR, BY REGION 2020–2028 (\$MILLION)
- TABLE 03.BRUSHLESS DC MOTORS MARKET REVENUE FOR OUTER ROTOR, BY REGION 2020–2028(\$MILLION)
- TABLE 04.GLOBAL BRUSHLESS DC MORORS MARKET REVENUE, BY POWER RANGE, 2020–2028 (\$MILLION)
- TABLE 05.GLOBAL BRUSHLESS DC MOTORS MARKET REVENUE FOR 0-750 W, BY REGION, 2020–2028 (\$MILLION)
- TABLE 06.GLOBAL BRUSHLESS DC MOTORS MARKET REVENUE FOR 750 W TO 3 KW, BY REGION, 2020–2028 (\$MILLION)
- TABLE 07.GLOBAL BRUSHLESS DC MOTORS MARKET REVENUE FOR MORE THAN 3 KW, BY REGION, 2020–2028 (\$MILLION)
- TABLE 08.GLOBAL BRUSHLESS DC MOTOR MARKET REVENUE, BY END USER, 2020-2028 (\$MILLION)
- TABLE 09.BRUSHLESS DC MOTORS MARKET REVENUE FOR INDUSTRIAL MACHINERY, BY REGION 2020–2028(\$MILLION)
- TABLE 10.BRUSHLESS DC MOTORS MARKET REVENUE FOR AUTOMOTIVE, BY REGION 2020–2028(\$MILLION)
- TABLE 11.BRUSHLESS DC MOTORS MARKET REVENUE FOR HEALTHCARE, BY REGION 2020–2028(\$MILLION)
- TABLE 12.BRUSHLESS DC MOTORS MARKET REVENUE FOR HVAC INDUSTRY, BY REGION 2020–2028(\$MILLION)
- TABLE 13.BRUSHLESS DC MOTORS MARKET REVENUE FOR OTHERS, BY REGION 2020–2028(\$MILLION)
- TABLE 14.BRUSHLESS DC MOTORS MARKET, BY REGION, 2020–2028 (\$MILLION)
- TABLE 15.NORTH AMERICA BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR TYPE 2020–2028(\$MILLION)
- TABLE 16.NORTH AMERICA BRUSHLESS DC MOTORS MARKET REVENUE, BY POWER RANGE 2020–2028(\$MILLION)
- TABLE 17.NORTH AMERICA BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER 2020–2028(\$MILLION)
- TABLE 18.NORTH AMERICA BRUSHLESS DC MOTORS MARKET REVENUE, BY COUNTRY, 2020–2028(\$MILLION)

TABLE 19.U.S. BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR TYPE
2020–2028(\$MILLION)

TABLE 20.U.S. BRUSHLESS DC MOTORS MARKET REVENUE, BY POWER
RANGE, 2020–2028(\$MILLION)

TABLE 21.U.S. BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER
2020–2028(\$MILLION)

TABLE 22.CANADA BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR
TYPE 2020–2028(\$MILLION)

TABLE 23.CANADA BRUSHLESS DC MOTORS MARKET REVENUE, BY POWER
RANGE 2020–2028(\$MILLION)

TABLE 24.CANADA BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER
2020–2028(\$MILLION)

TABLE 25.MEXICO BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR
TYPE 2020–2028(\$MILLION)

TABLE 26.MEXICO BRUSHLESS DC MOTORS MARKET REVENUE, BY POWER
RANGE 2020–2028(\$MILLION)

TABLE 27.MEXICO BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER
2020–2028(\$MILLION)

TABLE 28.EUROPE BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR
TYPE 2020–2028(\$MILLION)

TABLE 29.EUROPE BRUSHLESS DC MOTORS MARKET REVENUE, BY POWER
RANGE 2020–2028(\$MILLION)

TABLE 30.EUROPE BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER
2020–2028(\$MILLION)

TABLE 31.EUROPE BRUSHLESS DC MOTORS MARKET REVENUE, BY COUNTRY,
2020–2028(\$MILLION)

TABLE 32.GERMANY BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR
TYPE 2020–2028(\$MILLION)

TABLE 33.GERMANY BRUSHLESS DC MOTORS MARKET REVENUE, BY POWER
RANGE 2020–2028(\$MILLION)

TABLE 34.GERMANY BRUSHLESS DC MOTORS MARKET REVENUE, BY END
USER 2020–2028(\$MILLION)

TABLE 35.FRANCE BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR
TYPE 2020–2028(\$MILLION)

TABLE 36.FRANCE BRUSHLESS DC MOTORS MARKET REVENUE, BY POWER
RANGE 2020–2028(\$MILLION)

TABLE 37.FRANCE BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER
2020–2028(\$MILLION)

TABLE 38.UK BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR TYPE

2020–2028(\$MILLION)

TABLE 39.UK BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR TYPE

2020–2028(\$MILLION)

TABLE 40.UK BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER

2020–2028(\$MILLION)

TABLE 41.ITALY BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR TYPE

2020–2028(\$MILLION)

TABLE 42.ITALY BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR TYPE

2020–2028(\$MILLION)

TABLE 43.ITALY BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER

2020–2028(\$MILLION)

TABLE 44.SPAIN BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR TYPE

2020–2028(\$MILLION)

TABLE 45.SPAIN BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR TYPE

2020–2028(\$MILLION)

TABLE 46.SPAIN BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER

2020–2028(\$MILLION)

TABLE 47.REST OF EUROPE BRUSHLESS DC MOTORS MARKET REVENUE, BY
ROTOR TYPE 2020–2028(\$MILLION)

TABLE 48.REST OF EUROPE BRUSHLESS DC MOTORS MARKET REVENUE, BY
ROTOR TYPE 2020–2028(\$MILLION)

TABLE 49.REST OF EUROPE BRUSHLESS DC MOTORS MARKET REVENUE, BY
END USER 2020–2028(\$MILLION)

TABLE 50.ASIA-PACIFIC BRUSHLESS DC MOTORS MARKET REVENUE, BY
ROTOR TYPE 2020–2028(\$MILLION)

TABLE 51.ASIA-PACIFIC BRUSHLESS DC MOTORS MARKET REVENUE, BY
POWER RANGE 2020–2028(\$MILLION)

TABLE 52.ASIA-PACIFIC BRUSHLESS DC MOTORS MARKET REVENUE, BY END
USER 2020–2028(\$MILLION)

TABLE 53.ASIA-PACIFIC BRUSHLESS DC MOTORS MARKET REVENUE, BY
COUNTRY, 2020–2028(\$MILLION)

TABLE 54.JAPAN BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR
TYPE 2020–2028(\$MILLION)

TABLE 55.JAPAN BRUSHLESS DC MOTORS MARKET REVENUE, BY POWER
RANGE 2020–2028(\$MILLION)

TABLE 56.JAPAN BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER
2020–2028(\$MILLION)

TABLE 57.CHINA BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR TYPE
2020–2028(\$MILLION)

TABLE 58.CHINA BRUSHLESS DC MOTORS MARKET REVENUE, BY POWER RANGE 2020–2028(\$MILLION)

TABLE 59.CHINA BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER 2020–2028(\$MILLION)

TABLE 60.INDIA BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR TYPE 2020–2028(\$MILLION)

TABLE 61.INDIA BRUSHLESS DC MOTORS MARKET REVENUE, BY POWER RANGE 2020–2028(\$MILLION)

TABLE 62.INDIA BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER 2020–2028(\$MILLION)

TABLE 63.SOUTH KOREA BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR TYPE 2020–2028(\$MILLION)

TABLE 64.SOUTH KOREA BRUSHLESS DC MOTORS MARKET REVENUE, BY POWER RANGE 2020–2028(\$MILLION)

TABLE 65.SOUTH KOREA BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER 2020–2028(\$MILLION)

TABLE 66.AUSTRALIA BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR TYPE 2020–2028(\$MILLION)

TABLE 67.AUSTRALIA BRUSHLESS DC MOTORS MARKET REVENUE, BY POWER RANGE 2020–2028(\$MILLION)

TABLE 68.AUSTRALIA BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER 2020–2028(\$MILLION)

TABLE 69.REST OF ASIA-PACIFIC BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR TYPE 2020–2028(\$MILLION)

TABLE 70.REST OF ASIA-PACIFIC BRUSHLESS DC MOTORS MARKET REVENUE, BY POWER RANGE 2020–2028(\$MILLION)

TABLE 71.REST OF ASIA-PACIFIC BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER 2020–2028(\$MILLION)

TABLE 72.LAMEA BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR TYPE 2020–2028(\$MILLION)

TABLE 73.LAMEA BRUSHLESS DC MOTORS MARKET REVENUE, BY POWER RANGE 2020–2028(\$MILLION)

TABLE 74.LAMEA BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER 2020–2028(\$MILLION)

TABLE 75.LAMEA BRUSHLESS DC MOTORS MARKET REVENUE, BY COUNTRY, 2020–2028(\$MILLION)

TABLE 76.BRAZIL BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR TYPE 2020–2028(\$MILLION)

TABLE 77.BRAZIL BRUSHLESS DC MOTORS MARKET REVENUE, BY POWER

RANGE 2020–2028(\$MILLION)

TABLE 78.BRAZIL BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER
2020–2028(\$MILLION)

TABLE 79.ARGENTINA BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR
TYPE 2020–2028(\$MILLION)

TABLE 80.ARGENTINA BRUSHLESS DC MOTORS MARKET REVENUE, BY POWER
RANGE 2020–2028(\$MILLION)

TABLE 81.ARGENTINA BRUSHLESS DC MOTORS MARKET REVENUE, BY END
USER 2020–2028(\$MILLION)

TABLE 82.GCC BRUSHLESS DC MOTORS MARKET REVENUE, BY ROTOR TYPE
2020–2028(\$MILLION)

TABLE 83.GCC BRUSHLESS DC MOTORS MARKET REVENUE, BY POWER
RANGE 2020–2028(\$MILLION)

TABLE 84.GCC BRUSHLESS DC MOTORS MARKET REVENUE, BY END USER
2020–2028(\$MILLION)

TABLE 85.SOUTH AFRICA BRUSHLESS DC MOTORS MARKET REVENUE, BY
ROTOR TYPE 2020–2028(\$MILLION)

TABLE 86.SOUTH AFRICA BRUSHLESS DC MOTORS MARKET REVENUE, BY
POWER RANGE 2020–2028(\$MILLION)

TABLE 87.SOUTH AFRICA BRUSHLESS DC MOTORS MARKET REVENUE, BY END
USER 2020–2028(\$MILLION)

TABLE 88.REST OF LAMEA BRUSHLESS DC MOTORS MARKET REVENUE, BY
ROTOR TYPE 2020–2028(\$MILLION)

TABLE 89.REST OF LAMEA BRUSHLESS DC MOTORS MARKET REVENUE, BY
POWER RANGE 2020–2028(\$MILLION)

TABLE 90.REST OF LAMEA BRUSHLESS DC MOTORS MARKET REVENUE, BY
END USER 2020–2028(\$MILLION)

TABLE 91.KEY NEW PRODUCT LAUNCHES (2017–2021)

TABLE 92.KEY ACQUISITIONS (2017–2021)

TABLE 93.ALLIED MOTION TECHNOLOGIES INC: KEY EXECUTIVES

TABLE 94.ALLIED MOTION TECHNOLOGIES INC: COMPANY SNAPSHOT

TABLE 95.ALLIED MOTION TECHNOLOGIES INC.: OPERATING SEGMENTS

TABLE 96.ALLIED MOTION TECHNOLOGIES INC.: PRODUCT PORTFOLIO

TABLE 97.AMETEK INC: KEY EXECUTIVES

TABLE 98.AMETEK INC: COMPANY SNAPSHOT

TABLE 99.AMETEK INC: OPERATING SEGMENTS

TABLE 100.AMETEK INC.: PRODUCT PORTFOLIO

TABLE 101.ARC SYSTEMS INC: KEY EXECUTIVES

TABLE 102.ARC SYSTEMS INC: COMPANY SNAPSHOT

TABLE 103.ARC SYSTEMS INC: OPERATING SEGMENTS
TABLE 104.ARC SYSTEMS INC: PRODUCT PORTFOLIO
TABLE 105.BUHLER MOTOR GMBH: KEY EXECUTIVES
TABLE 106.BUHLER MOTOR GMBH: COMPANY SNAPSHOT
TABLE 107.BUHLER MOTOR GMBH: OPERATING SEGMENTS
TABLE 108.BUHLER MOTOR GMBH: PRODUCT PORTFOLIO
TABLE 109.FAULHABER GROUP: KEY EXECUTIVES
TABLE 110.FAULHABER GROUP: COMPANY SNAPSHOT
TABLE 111.FAULHABER GROUP: OPERATING SEGMENTS
TABLE 112.FAULHABER GROUP: PRODUCT PORTFOLIO
TABLE 113.JOHNSON ELECTRIC HOLDINGS LIMITED: KEY EXECUTIVES
TABLE 114.JOHNSON ELECTRIC HOLDINGS LIMITED: COMPANY SNAPSHOT
TABLE 115.JOHNSON ELECTRIC HOLDINGS LIMITED: OPERATING SEGMENTS
TABLE 116.JOHNSON ELECTRIC HOLDINGS LIMITED: PRODUCT PORTFOLIO
TABLE 117.MAXON MOTORS AG: KEY EXECUTIVES
TABLE 118.MAXON MOTORS AG: COMPANY SNAPSHOT
TABLE 119.MAXON MOTORS AG: OPERATING SEGMENTS
TABLE 120.MAXON MOTORS AG: PRODUCT PORTFOLIO
TABLE 121.MINEBEAMITSUMI INC: KEY EXECUTIVES
TABLE 122.MINEBEAMITSUMI INC.: COMPANY SNAPSHOT
TABLE 123.MINEBEAMITSUMI INC.: OPERATING SEGMENTS
TABLE 124.MINEBEAMITSUMI INC.: PRODUCT PORTFOLIO
TABLE 125.NIDEC CORPORATION: KEY EXECUTIVES
TABLE 126.NIDEC CORPORATION: COMPANY SNAPSHOT
TABLE 127.NIDEC CORPORATION: OPERATING SEGMENTS
TABLE 128.NIDEC CORPORATION: PRODUCT PORTFOLIO
TABLE 129.ORIENTAL MOTORS CO. LTD: KEY EXECUTIVE
TABLE 130.ORIENTAL MOTORS CO. LTD.: COMPANY SNAPSHOT
TABLE 131.ORIENTAL MOTORS CO. LTD.: OPERATING SEGMENTS
TABLE 132.ORIENTAL MOTORS CO. LTD.: PRODUCT PORTFOLIO

List Of Figures

LIST OF FIGURES

FIGURE 01.KEY MARKET SEGMENTS

FIGURE 02.KEY MARKET PLAYERS

FIGURE 03.EXECUTIVE SUMMARY

FIGURE 04.TOP IMPACTING FACTORS

FIGURE 05.TOP INVESTMENT POCKETS

FIGURE 06.LOW TO HIGH BARGAINING POWER OF SUPPLIERS

FIGURE 07.LOW TO HIGH BARGAINING POWER OF BUYERS

FIGURE 08.MODERATE THREAT OF SUBSTITUTES

FIGURE 09.MODERATE- HIGH THREAT OF NEW ENTRANTS

FIGURE 10.MODERATE-TO- HIGH COMPETITIVE RIVALRY

FIGURE 11.VALUE CHAIN ANALYSIS

FIGURE 12.SMILING CURVE VALUE CHAIN MODEL

FIGURE 13.BRUSHLESS DC MOTORS MARKET: MARKET DYNAMICS

FIGURE 14.GLOBAL BRUSHLESS DC MOTOR MARKET, BY ROTOR TYPE, 2020-2028

FIGURE 15.COMPARATIVE SHARE ANALYSIS OF INNER ROTOR BRUSHLESS DC MOTORS MARKET, BY COUNTRY, 2020 & 2028 (%)

FIGURE 16.COMPARATIVE SHARE ANALYSIS OF OUTER ROTOR BRUSHLESS DC MOTORS MARKET, BY COUNTRY, 2020 & 2028 (%)

FIGURE 17.GLOBAL BRUSHLESS DC MOTORS MARKET, BY POWER RANGE, 2020–2028 (%)

FIGURE 18.GLOBAL BRUSHLESS DC MOTORS MARKET, FOR 0-750 W, BY COUNTRY, 2020–2028 (%)

FIGURE 19.GLOBAL BRUSHLESS DC MOTORS MARKET, FOR 750 W TO 3 KW, BY COUNTRY, 2020–2028 (%)

FIGURE 20.GLOBAL BRUSHLESS DC MOTORS MARKET, FOR MORE THAN 3 KW, BY COUNTRY, 2020–2028 (%)

FIGURE 21.GLOBAL BRUSHLESS DC MOTOR MARKET, BY END-USER, 2020-2028

FIGURE 22.COMPARATIVE SHARE ANALYSIS OF BRUSHLESS DC MOTORS MARKET, FOR INDUSTRIAL MACHINERY, BY COUNTRY, 2020 & 2028 (%)

FIGURE 23.COMPARATIVE SHARE ANALYSIS OF BRUSHLESS DC MOTORS MARKET, FOR AUTOMOTIVE, BY COUNTRY, 2020 & 2028 (%)

FIGURE 24.COMPARATIVE SHARE ANALYSIS OF BRUSHLESS DC MOTORS MARKET, FOR HEALTHCARE, BY COUNTRY, 2020 & 2028 (%)

FIGURE 25.COMPARATIVE SHARE ANALYSIS OF BRUSHLESS DC MOTORS

MARKET, FOR HVAC INDUSTRY, BY COUNTRY, 2020 & 2028 (%)

FIGURE 26.COMPARATIVE SHARE ANALYSIS OF BRUSHLESS DC MOTORS MARKET, FOR OTHERS, BY COUNTRY, 2020 & 2028 (%)

FIGURE 27.BRUSHLESS DC MOTORS MARKET REVENUE, BY REGION, 2020-2028(\$MILLION)

FIGURE 28.U.S. BRUSHLESS DC MOTORS MARKET REVENUE, 2020-2028(\$MILLION)

FIGURE 29.CANADA BRUSHLESS DC MOTORS MARKET REVENUE, 2020-2028(\$MILLION)

FIGURE 30.MEXICO BRUSHLESS DC MOTORS MARKET REVENUE, 2020-2028(\$MILLION)

FIGURE 31.GERMANY BRUSHLESS DC MOTORS MARKET REVENUE, 2020-2028(\$MILLION)

FIGURE 32.FRANCE BRUSHLESS DC MOTORS MARKET REVENUE, 2020-2028(\$MILLION)

FIGURE 33.UK BRUSHLESS DC MOTORS MARKET REVENUE, 2020-2028(\$MILLION)

FIGURE 34.ITALY BRUSHLESS DC MOTORS MARKET REVENUE, 2020-2028(\$MILLION)

FIGURE 35.SPAIN BRUSHLESS DC MOTORS MARKET REVENUE, 2020-2028(\$MILLION)

FIGURE 36.REST OF EUROPE BRUSHLESS DC MOTORS MARKET REVENUE, 2020-2028(\$MILLION)

FIGURE 37.JAPAN BRUSHLESS DC MOTORS MARKET REVENUE, 2020-2028(\$MILLION)

FIGURE 38.CHINA BRUSHLESS DC MOTORS MARKET REVENUE, 2020-2028(\$MILLION)

FIGURE 39.INDIA BRUSHLESS DC MOTORS MARKET REVENUE, 2020-2028(\$MILLION)

FIGURE 40.SOUTH KOREA BRUSHLESS DC MOTORS MARKET REVENUE, 2020-2028(\$MILLION)

FIGURE 41.AUSTRALIA BRUSHLESS DC MOTORS MARKET REVENUE, 2020-2028(\$MILLION)

FIGURE 42.REST OF ASIA-PACIFIC BRUSHLESS DC MOTORS MARKET REVENUE, 2020-2028(\$MILLION)

FIGURE 43.BRAZIL BRUSHLESS DC MOTORS MARKET REVENUE, 2020-2028(\$MILLION)

FIGURE 44.ARGENTINA BRUSHLESS DC MOTORS MARKET REVENUE, 2020-2028(\$MILLION)

FIGURE 45.GCC BRUSHLESS DC MOTORS MARKET REVENUE,
2020-2028(\$MILLION)

FIGURE 46.SOUTH AFRICA BRUSHLESS DC MOTORS MARKET REVENUE,
2020-2028(\$MILLION)

FIGURE 47.REST OF LAMEA BRUSHLESS DC MOTORS MARKET REVENUE,
2020-2028(\$MILLION)

FIGURE 48.KEY PLAYER POSITIONING, 2020

FIGURE 49.TOP WINNING STRATEGIES, BY YEAR, 2017–2021

FIGURE 50.TOP WINNING STRATEGIES, BY DEVELOPMENT, 2017–2021 (%)

FIGURE 51.TOP WINNING STRATEGIES, BY COMPANY, 2017–2021

FIGURE 52.ALLIED MOTION TECHNOLOGIES INC: R&D EXPENSES, 2018–2020
(\$MILLION)

FIGURE 53.ALLIED MOTION TECHNOLOGIES INC.: REVENUE, 2018–2020
(\$MILLION)

FIGURE 54.ALLIED MOTION TECHNOLOGIES INC.: REVENUE SHARE BY
SEGMENT, 2020 (%)

FIGURE 55.ALLIED MOTION TECHNOLOGIES INC.: REVENUE SHARE BY REGION,
2020 (%)

FIGURE 56.AMETEK INC: R&D EXPENSES, 2018–2020 (\$MILLION)

FIGURE 57.AMETEK INC.: REVENUE, 2018–2020 (\$MILLION)

FIGURE 58.AMETEK INC.: REVENUE SHARE BY SEGMENT, 2020 (%)

FIGURE 59.JOHNSON ELECTRIC HOLDINGS LIMITED: R&D EXPENSES,
2019–2021 (\$MILLION)

FIGURE 60.JOHNSON ELECTRIC HOLDINGS LIMITED: REVENUE, 2019–2021
(\$MILLION)

FIGURE 61.JOHNSON ELECTRIC HOLDINGS LIMITED: REVENUE SHARE BY
SEGMENT, 2021 (%)

FIGURE 62.JOHNSON ELECTRIC HOLDINGS LIMITED: REVENUE SHARE BY
REGION, 2021 (%)

FIGURE 63.MINEBEAMITSUMI INC: R&D EXPENDITURE, 2018–2020 (\$MILLION)

FIGURE 64.MINEBEAMITSUMI INC.: REVENUE, 2018–2020 (\$MILLION)

FIGURE 65.MINEBEAMITSUMI INC.: REVENUE SHARE BY SEGMENT, 2020 (%)

FIGURE 66.MINEBEAMITSUMI INC.: REVENUE SHARE BY REGION REGION, 2020
(%)

FIGURE 67.NIDEC CORPORATION:R&D EXPENSES, 2019–2021 (\$MILLION)

FIGURE 68.NIDEC CORPORATION: REVENUE, 2019–2021 (\$MILLION)

FIGURE 69.NIDEC CORPORATION: REVENUE SHARE BY SEGMENT, 2021 (%)

FIGURE 70.NIDEC CORPORATION: REVENUE SHARE BY REGION, 2021 (%)

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