

Global Miniature Slotless Brushless DC Motor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Miniature Slotless Brushless DC Motor market size was valued at US\$ 114 million in 2025 and is forecast to a readjusted size of US\$ 187 million by 2032 with a CAGR of 7.1% during review period.

A miniature slotless brushless DC motor is a small, precision DC motor featuring electronic commutation, a permanent-magnet rotor, and a slotless stator winding structure. Unlike traditional slotted brushless motors, its coils are not embedded in the slots of a toothed iron core; instead, they are typically formed as self-supporting cylindrical or flat windings secured by resin encapsulation. This design significantly reduces cogging torque, torque ripple, mechanical vibration, and operating noise, while offering advantages such as low rotor inertia, rapid response, excellent high-speed performance, and smooth motion control. In 2025, global sales volume for miniature slotless brushless DC motors is projected to reach 397,700 units, with an average selling price of \$278.37 per unit; the industry's average gross profit margin is estimated to be approximately 35%-45%. The upstream of the micro slotless brushless DC motor industry chain mainly includes high-performance neodymium iron boron or samarium cobalt permanent magnets, enameled copper wires, silicon steel or soft magnetic alloy back iron, precision bearings, stainless steel shafts, aluminum alloy or stainless steel shells, engineering plastics, epoxy resins, adhesives, Hall chips, encoder components and flexible circuit boards. Among them, self-supporting slotless winding is a key link in determining motor performance and manufacturing yield, and has higher requirements for winding equipment, coil forming, potting, dynamic balancing and dimensional consistency. The midstream manufacturing process includes electromagnetic design, magnetic circuit simulation, winding design, coil forming, magnet assembly, bearing

press-fitting, rotor dynamic balancing, sensor integration, potting, final assembly, and speed, torque, noise, vibration and life testing. Some companies also provide integrated configurations of encoders, planetary reduction gearboxes, drives and wiring harnesses, but in market statistics, they should avoid including the entire system value in motor revenue. Downstream customers are mainly medical equipment manufacturers, surgical power tool companies, robotics and automation equipment companies, aerospace and defense contractors, semiconductor equipment manufacturers, optical instrument manufacturers and precision pump and valve manufacturers. This industry usually adopts a project introduction model, and customers need to go through sample testing, design verification, reliability testing, regulatory certification and mass production audit. Once entering the medical, aerospace or high-end industrial equipment supply chain, the product life cycle may reach more than 5-10 years, and the cost of supplier replacement is high. The sales method is mainly directly to OEM customers, and standard industrial products are also sold through regional dealers, automation parts platforms and online selection platforms.

Growth in the global market for miniature slotless brushless DC (BLDC) motors is primarily driven by trends toward the miniaturization, electrification, and smart integration of medical devices. Surgical drills, bone saws, dental tools, ventilators, insulin pumps, infusion pumps, blood analyzers, and surgical robots require power sources that are compact, high-speed, quiet, and durable, while offering precise control; the slotless structure?characterized by virtually zero cogging torque?improves vibration characteristics, cutting stability, and handling feel in surgical instruments. Secondly, there is growing demand for smooth low-speed motion, rapid start-stop capabilities, and high positioning accuracy in applications such as collaborative robots, microrobots, automated grippers, precision pumps, optical scanning platforms, and semiconductor equipment. The aerospace sector?including drones, satellite actuators, and optoelectronic stabilization platforms?also drives the adoption of motors that are lightweight, highly reliable, and low-vibration. Advances in high-performance magnetic materials, precision winding, miniature encoders, and sensorless control technologies enable smaller motors to achieve higher power output and rotational speeds. At the same time, the market faces significant risks: the manufacturing and potting processes for slotless windings are complex, making automation and yield control challenging; high-end products rely on precision bearings, rare-earth magnets, and high-quality enameled wire, meaning fluctuations in raw material prices and supply can squeeze profit margins; the low-inductance nature of slotless motors can lead to increased current ripple and heat generation under improper PWM control, placing higher demands on drive system design; and for a given size, the continuous torque density of slotless designs is sometimes lower than that of slotted motors, potentially leading to

their replacement by slotted BLDC motors, coreless brushed motors, or stepper motors in high-torque or cost-sensitive applications. Furthermore, the medical and aerospace sectors involve long customer qualification cycles, substantial R&D investment, and limited sales volumes per project; consequently, project delays or the cancellation of customer platforms can significantly impact supplier revenue.

This report is a detailed and comprehensive analysis for global Miniature Slotless Brushless DC Motor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Miniature Slotless Brushless DC Motor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Miniature Slotless Brushless DC Motor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Miniature Slotless Brushless DC Motor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Miniature Slotless Brushless DC Motor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Miniature Slotless Brushless DC Motor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Miniature Slotless Brushless DC Motor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Portescap, FAULHABER, Maxon Motor, AMETEK, Allient, MOONS', Constar Motion, Citizen Chiba Precision, Topband Motor, Elinco International JPC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Miniature Slotless Brushless DC Motor market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Diameter ?10 mm

10 mm ? Diameter ?20 mm

20 mm ? Diameter ?30 mm

Market segment by Power

Power Below 10W

Power 10-50W

Power 51-100W

Power 101-150W

Market segment by Rotor and Magnetic-Circuit Configuration

Inner-Rotor Radial-Flux Type

Outer-Rotor Radial-Flux Type

Axial-Flux or Flat Type

Market segment by Application

Medical Industry

Aerospace and Defense

Industrial Manufacturing

Others

Major players covered

Portescap

FAULHABER

Maxon Motor

AMETEK

Allient

MOONS'

Constar Motion

Citizen Chiba Precision

Topband Motor

Elinco International JPC

Fulling Motor

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Miniature Slotless Brushless DC Motor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Miniature Slotless Brushless DC Motor, with price, sales quantity, revenue, and global market share of Miniature Slotless Brushless DC Motor from 2021 to 2026.

Chapter 3, the Miniature Slotless Brushless DC Motor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Miniature Slotless Brushless DC Motor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Miniature Slotless Brushless DC Motor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Miniature Slotless Brushless DC Motor.

Chapter 14 and 15, to describe Miniature Slotless Brushless DC Motor sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Miniature Slotless Brushless DC Motor Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Diameter ?10 mm

1.3.3 10 mm ? Diameter ?20 mm

1.3.4 20 mm ? Diameter ?30 mm

1.4 Market Analysis by Power

1.4.1 Overview: Global Miniature Slotless Brushless DC Motor Consumption Value by Power: 2021 Versus 2025 Versus 2032

1.4.2 Power Below 10W

1.4.3 Power 10-50W

1.4.4 Power 51-100W

1.4.5 Power 101-150W

1.5 Market Analysis by Rotor and Magnetic-Circuit Configuration

1.5.1 Overview: Global Miniature Slotless Brushless DC Motor Consumption Value by Rotor and Magnetic-Circuit Configuration: 2021 Versus 2025 Versus 2032

1.5.2 Inner-Rotor Radial-Flux Type

1.5.3 Outer-Rotor Radial-Flux Type

1.5.4 Axial-Flux or Flat Type

1.6 Market Analysis by Application

1.6.1 Overview: Global Miniature Slotless Brushless DC Motor Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Medical Industry

1.6.3 Aerospace and Defense

1.6.4 Industrial Manufacturing

1.6.5 Others

1.7 Global Miniature Slotless Brushless DC Motor Market Size & Forecast

1.7.1 Global Miniature Slotless Brushless DC Motor Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Miniature Slotless Brushless DC Motor Sales Quantity (2021-2032)

1.7.3 Global Miniature Slotless Brushless DC Motor Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Portescap

2.1.1 Portescap Details

2.1.2 Portescap Major Business

2.1.3 Portescap Miniature Slotless Brushless DC Motor Product and Services

2.1.4 Portescap Miniature Slotless Brushless DC Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Portescap Recent Developments/Updates

2.2 FAULHABER

2.2.1 FAULHABER Details

2.2.2 FAULHABER Major Business

2.2.3 FAULHABER Miniature Slotless Brushless DC Motor Product and Services

2.2.4 FAULHABER Miniature Slotless Brushless DC Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 FAULHABER Recent Developments/Updates

2.3 Maxon Motor

2.3.1 Maxon Motor Details

2.3.2 Maxon Motor Major Business

2.3.3 Maxon Motor Miniature Slotless Brushless DC Motor Product and Services

2.3.4 Maxon Motor Miniature Slotless Brushless DC Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Maxon Motor Recent Developments/Updates

2.4 AMETEK

2.4.1 AMETEK Details

2.4.2 AMETEK Major Business

2.4.3 AMETEK Miniature Slotless Brushless DC Motor Product and Services

2.4.4 AMETEK Miniature Slotless Brushless DC Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 AMETEK Recent Developments/Updates

2.5 Allient

2.5.1 Allient Details

2.5.2 Allient Major Business

2.5.3 Allient Miniature Slotless Brushless DC Motor Product and Services

2.5.4 Allient Miniature Slotless Brushless DC Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Allient Recent Developments/Updates

2.6 MOONS'

2.6.1 MOONS' Details

2.6.2 MOONS' Major Business

- 2.6.3 MOONS' Miniature Slotless Brushless DC Motor Product and Services
- 2.6.4 MOONS' Miniature Slotless Brushless DC Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 MOONS' Recent Developments/Updates
- 2.7 Constar Motion
 - 2.7.1 Constar Motion Details
 - 2.7.2 Constar Motion Major Business
 - 2.7.3 Constar Motion Miniature Slotless Brushless DC Motor Product and Services
 - 2.7.4 Constar Motion Miniature Slotless Brushless DC Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Constar Motion Recent Developments/Updates
- 2.8 Citizen Chiba Precision
 - 2.8.1 Citizen Chiba Precision Details
 - 2.8.2 Citizen Chiba Precision Major Business
 - 2.8.3 Citizen Chiba Precision Miniature Slotless Brushless DC Motor Product and Services
 - 2.8.4 Citizen Chiba Precision Miniature Slotless Brushless DC Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Citizen Chiba Precision Recent Developments/Updates
- 2.9 Topband Motor
 - 2.9.1 Topband Motor Details
 - 2.9.2 Topband Motor Major Business
 - 2.9.3 Topband Motor Miniature Slotless Brushless DC Motor Product and Services
 - 2.9.4 Topband Motor Miniature Slotless Brushless DC Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Topband Motor Recent Developments/Updates
- 2.10 Elinco International JPC
 - 2.10.1 Elinco International JPC Details
 - 2.10.2 Elinco International JPC Major Business
 - 2.10.3 Elinco International JPC Miniature Slotless Brushless DC Motor Product and Services
 - 2.10.4 Elinco International JPC Miniature Slotless Brushless DC Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 Elinco International JPC Recent Developments/Updates
- 2.11 Fulling Motor
 - 2.11.1 Fulling Motor Details
 - 2.11.2 Fulling Motor Major Business
 - 2.11.3 Fulling Motor Miniature Slotless Brushless DC Motor Product and Services
 - 2.11.4 Fulling Motor Miniature Slotless Brushless DC Motor Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Fulling Motor Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: MINIATURE SLOTLESS BRUSHLESS DC MOTOR BY MANUFACTURER

3.1 Global Miniature Slotless Brushless DC Motor Sales Quantity by Manufacturer (2021-2026)

3.2 Global Miniature Slotless Brushless DC Motor Revenue by Manufacturer (2021-2026)

3.3 Global Miniature Slotless Brushless DC Motor Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Miniature Slotless Brushless DC Motor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Miniature Slotless Brushless DC Motor Manufacturer Market Share in 2025

3.4.3 Top 6 Miniature Slotless Brushless DC Motor Manufacturer Market Share in 2025

3.5 Miniature Slotless Brushless DC Motor Market: Overall Company Footprint Analysis

3.5.1 Miniature Slotless Brushless DC Motor Market: Region Footprint

3.5.2 Miniature Slotless Brushless DC Motor Market: Company Product Type Footprint

3.5.3 Miniature Slotless Brushless DC Motor Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Miniature Slotless Brushless DC Motor Market Size by Region

4.1.1 Global Miniature Slotless Brushless DC Motor Sales Quantity by Region (2021-2032)

4.1.2 Global Miniature Slotless Brushless DC Motor Consumption Value by Region (2021-2032)

4.1.3 Global Miniature Slotless Brushless DC Motor Average Price by Region (2021-2032)

4.2 North America Miniature Slotless Brushless DC Motor Consumption Value (2021-2032)

4.3 Europe Miniature Slotless Brushless DC Motor Consumption Value (2021-2032)

4.4 Asia-Pacific Miniature Slotless Brushless DC Motor Consumption Value
(2021-2032)

4.5 South America Miniature Slotless Brushless DC Motor Consumption Value
(2021-2032)

4.6 Middle East & Africa Miniature Slotless Brushless DC Motor Consumption Value
(2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Miniature Slotless Brushless DC Motor Sales Quantity by Type (2021-2032)

5.2 Global Miniature Slotless Brushless DC Motor Consumption Value by Type
(2021-2032)

5.3 Global Miniature Slotless Brushless DC Motor Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Miniature Slotless Brushless DC Motor Sales Quantity by Application
(2021-2032)

6.2 Global Miniature Slotless Brushless DC Motor Consumption Value by Application
(2021-2032)

6.3 Global Miniature Slotless Brushless DC Motor Average Price by Application
(2021-2032)

7 NORTH AMERICA

7.1 North America Miniature Slotless Brushless DC Motor Sales Quantity by Type
(2021-2032)

7.2 North America Miniature Slotless Brushless DC Motor Sales Quantity by Application
(2021-2032)

7.3 North America Miniature Slotless Brushless DC Motor Market Size by Country

7.3.1 North America Miniature Slotless Brushless DC Motor Sales Quantity by Country
(2021-2032)

7.3.2 North America Miniature Slotless Brushless DC Motor Consumption Value by
Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Miniature Slotless Brushless DC Motor Sales Quantity by Type (2021-2032)

8.2 Europe Miniature Slotless Brushless DC Motor Sales Quantity by Application (2021-2032)

8.3 Europe Miniature Slotless Brushless DC Motor Market Size by Country

8.3.1 Europe Miniature Slotless Brushless DC Motor Sales Quantity by Country (2021-2032)

8.3.2 Europe Miniature Slotless Brushless DC Motor Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Miniature Slotless Brushless DC Motor Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Miniature Slotless Brushless DC Motor Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Miniature Slotless Brushless DC Motor Market Size by Region

9.3.1 Asia-Pacific Miniature Slotless Brushless DC Motor Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Miniature Slotless Brushless DC Motor Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Miniature Slotless Brushless DC Motor Sales Quantity by Type (2021-2032)

10.2 South America Miniature Slotless Brushless DC Motor Sales Quantity by Application (2021-2032)

10.3 South America Miniature Slotless Brushless DC Motor Market Size by Country

10.3.1 South America Miniature Slotless Brushless DC Motor Sales Quantity by Country (2021-2032)

10.3.2 South America Miniature Slotless Brushless DC Motor Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Miniature Slotless Brushless DC Motor Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Miniature Slotless Brushless DC Motor Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Miniature Slotless Brushless DC Motor Market Size by Country

11.3.1 Middle East & Africa Miniature Slotless Brushless DC Motor Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Miniature Slotless Brushless DC Motor Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Miniature Slotless Brushless DC Motor Market Drivers

12.2 Miniature Slotless Brushless DC Motor Market Restraints

12.3 Miniature Slotless Brushless DC Motor Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Miniature Slotless Brushless DC Motor and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Miniature Slotless Brushless DC Motor
- 13.3 Miniature Slotless Brushless DC Motor Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Miniature Slotless Brushless DC Motor Typical Distributors
- 14.3 Miniature Slotless Brushless DC Motor Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Miniature Slotless Brushless DC Motor Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Miniature Slotless Brushless DC Motor Consumption Value by Power, (USD Million), 2021 & 2025 & 2032

Table 3. Global Miniature Slotless Brushless DC Motor Consumption Value by Rotor and Magnetic-Circuit Configuration, (USD Million), 2021 & 2025 & 2032

Table 4. Global Miniature Slotless Brushless DC Motor Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Portescap Basic Information, Manufacturing Base and Competitors

Table 6. Portescap Major Business

Table 7. Portescap Miniature Slotless Brushless DC Motor Product and Services

Table 8. Portescap Miniature Slotless Brushless DC Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Portescap Recent Developments/Updates

Table 10. FAULHABER Basic Information, Manufacturing Base and Competitors

Table 11. FAULHABER Major Business

Table 12. FAULHABER Miniature Slotless Brushless DC Motor Product and Services

Table 13. FAULHABER Miniature Slotless Brushless DC Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. FAULHABER Recent Developments/Updates

Table 15. Maxon Motor Basic Information, Manufacturing Base and Competitors

Table 16. Maxon Motor Major Business

Table 17. Maxon Motor Miniature Slotless Brushless DC Motor Product and Services

Table 18. Maxon Motor Miniature Slotless Brushless DC Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Maxon Motor Recent Developments/Updates

Table 20. AMETEK Basic Information, Manufacturing Base and Competitors

Table 21. AMETEK Major Business

Table 22. AMETEK Miniature Slotless Brushless DC Motor Product and Services

Table 23. AMETEK Miniature Slotless Brushless DC Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. AMETEK Recent Developments/Updates

Table 25. Allient Basic Information, Manufacturing Base and Competitors

Table 26. Allient Major Business

Table 27. Allient Miniature Slotless Brushless DC Motor Product and Services

Table 28. Allient Miniature Slotless Brushless DC Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Allient Recent Developments/Updates

Table 30. MOONS' Basic Information, Manufacturing Base and Competitors

Table 31. MOONS' Major Business

Table 32. MOONS' Miniature Slotless Brushless DC Motor Product and Services

Table 33. MOONS' Miniature Slotless Brushless DC Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. MOONS' Recent Developments/Updates

Table 35. Constar Motion Basic Information, Manufacturing Base and Competitors

Table 36. Constar Motion Major Business

Table 37. Constar Motion Miniature Slotless Brushless DC Motor Product and Services

Table 38. Constar Motion Miniature Slotless Brushless DC Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Constar Motion Recent Developments/Updates

Table 40. Citizen Chiba Precision Basic Information, Manufacturing Base and Competitors

Table 41. Citizen Chiba Precision Major Business

Table 42. Citizen Chiba Precision Miniature Slotless Brushless DC Motor Product and Services

Table 43. Citizen Chiba Precision Miniature Slotless Brushless DC Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Citizen Chiba Precision Recent Developments/Updates

Table 45. Topband Motor Basic Information, Manufacturing Base and Competitors

Table 46. Topband Motor Major Business

Table 47. Topband Motor Miniature Slotless Brushless DC Motor Product and Services

Table 48. Topband Motor Miniature Slotless Brushless DC Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Topband Motor Recent Developments/Updates

Table 50. Elinco International JPC Basic Information, Manufacturing Base and

Competitors

Table 51. Elinco International JPC Major Business

Table 52. Elinco International JPC Miniature Slotless Brushless DC Motor Product and Services

Table 53. Elinco International JPC Miniature Slotless Brushless DC Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Elinco International JPC Recent Developments/Updates

Table 55. Fulling Motor Basic Information, Manufacturing Base and Competitors

Table 56. Fulling Motor Major Business

Table 57. Fulling Motor Miniature Slotless Brushless DC Motor Product and Services

Table 58. Fulling Motor Miniature Slotless Brushless DC Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Fulling Motor Recent Developments/Updates

Table 60. Global Miniature Slotless Brushless DC Motor Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 61. Global Miniature Slotless Brushless DC Motor Revenue by Manufacturer (2021-2026) & (USD Million)

Table 62. Global Miniature Slotless Brushless DC Motor Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 63. Market Position of Manufacturers in Miniature Slotless Brushless DC Motor, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 64. Head Office and Miniature Slotless Brushless DC Motor Production Site of Key Manufacturer

Table 65. Miniature Slotless Brushless DC Motor Market: Company Product Type Footprint

Table 66. Miniature Slotless Brushless DC Motor Market: Company Product Application Footprint

Table 67. Miniature Slotless Brushless DC Motor New Market Entrants and Barriers to Market Entry

Table 68. Miniature Slotless Brushless DC Motor Mergers, Acquisition, Agreements, and Collaborations

Table 69. Global Miniature Slotless Brushless DC Motor Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 70. Global Miniature Slotless Brushless DC Motor Sales Quantity by Region (2021-2026) & (K Units)

Table 71. Global Miniature Slotless Brushless DC Motor Sales Quantity by Region (2027-2032) & (K Units)

Table 72. Global Miniature Slotless Brushless DC Motor Consumption Value by Region (2021-2026) & (USD Million)

Table 73. Global Miniature Slotless Brushless DC Motor Consumption Value by Region (2027-2032) & (USD Million)

Table 74. Global Miniature Slotless Brushless DC Motor Average Price by Region (2021-2026) & (US\$/Unit)

Table 75. Global Miniature Slotless Brushless DC Motor Average Price by Region (2027-2032) & (US\$/Unit)

Table 76. Global Miniature Slotless Brushless DC Motor Sales Quantity by Type (2021-2026) & (K Units)

Table 77. Global Miniature Slotless Brushless DC Motor Sales Quantity by Type (2027-2032) & (K Units)

Table 78. Global Miniature Slotless Brushless DC Motor Consumption Value by Type (2021-2026) & (USD Million)

Table 79. Global Miniature Slotless Brushless DC Motor Consumption Value by Type (2027-2032) & (USD Million)

Table 80. Global Miniature Slotless Brushless DC Motor Average Price by Type (2021-2026) & (US\$/Unit)

Table 81. Global Miniature Slotless Brushless DC Motor Average Price by Type (2027-2032) & (US\$/Unit)

Table 82. Global Miniature Slotless Brushless DC Motor Sales Quantity by Application (2021-2026) & (K Units)

Table 83. Global Miniature Slotless Brushless DC Motor Sales Quantity by Application (2027-2032) & (K Units)

Table 84. Global Miniature Slotless Brushless DC Motor Consumption Value by Application (2021-2026) & (USD Million)

Table 85. Global Miniature Slotless Brushless DC Motor Consumption Value by Application (2027-2032) & (USD Million)

Table 86. Global Miniature Slotless Brushless DC Motor Average Price by Application (2021-2026) & (US\$/Unit)

Table 87. Global Miniature Slotless Brushless DC Motor Average Price by Application (2027-2032) & (US\$/Unit)

Table 88. North America Miniature Slotless Brushless DC Motor Sales Quantity by Type (2021-2026) & (K Units)

Table 89. North America Miniature Slotless Brushless DC Motor Sales Quantity by Type (2027-2032) & (K Units)

Table 90. North America Miniature Slotless Brushless DC Motor Sales Quantity by Application (2021-2026) & (K Units)

Table 91. North America Miniature Slotless Brushless DC Motor Sales Quantity by

Application (2027-2032) & (K Units)

Table 92. North America Miniature Slotless Brushless DC Motor Sales Quantity by Country (2021-2026) & (K Units)

Table 93. North America Miniature Slotless Brushless DC Motor Sales Quantity by Country (2027-2032) & (K Units)

Table 94. North America Miniature Slotless Brushless DC Motor Consumption Value by Country (2021-2026) & (USD Million)

Table 95. North America Miniature Slotless Brushless DC Motor Consumption Value by Country (2027-2032) & (USD Million)

Table 96. Europe Miniature Slotless Brushless DC Motor Sales Quantity by Type (2021-2026) & (K Units)

Table 97. Europe Miniature Slotless Brushless DC Motor Sales Quantity by Type (2027-2032) & (K Units)

Table 98. Europe Miniature Slotless Brushless DC Motor Sales Quantity by Application (2021-2026) & (K Units)

Table 99. Europe Miniature Slotless Brushless DC Motor Sales Quantity by Application (2027-2032) & (K Units)

Table 100. Europe Miniature Slotless Brushless DC Motor Sales Quantity by Country (2021-2026) & (K Units)

Table 101. Europe Miniature Slotless Brushless DC Motor Sales Quantity by Country (2027-2032) & (K Units)

Table 102. Europe Miniature Slotless Brushless DC Motor Consumption Value by Country (2021-2026) & (USD Million)

Table 103. Europe Miniature Slotless Brushless DC Motor Consumption Value by Country (2027-2032) & (USD Million)

Table 104. Asia-Pacific Miniature Slotless Brushless DC Motor Sales Quantity by Type (2021-2026) & (K Units)

Table 105. Asia-Pacific Miniature Slotless Brushless DC Motor Sales Quantity by Type (2027-2032) & (K Units)

Table 106. Asia-Pacific Miniature Slotless Brushless DC Motor Sales Quantity by Application (2021-2026) & (K Units)

Table 107. Asia-Pacific Miniature Slotless Brushless DC Motor Sales Quantity by Application (2027-2032) & (K Units)

Table 108. Asia-Pacific Miniature Slotless Brushless DC Motor Sales Quantity by Region (2021-2026) & (K Units)

Table 109. Asia-Pacific Miniature Slotless Brushless DC Motor Sales Quantity by Region (2027-2032) & (K Units)

Table 110. Asia-Pacific Miniature Slotless Brushless DC Motor Consumption Value by Region (2021-2026) & (USD Million)

Table 111. Asia-Pacific Miniature Slotless Brushless DC Motor Consumption Value by Region (2027-2032) & (USD Million)

Table 112. South America Miniature Slotless Brushless DC Motor Sales Quantity by Type (2021-2026) & (K Units)

Table 113. South America Miniature Slotless Brushless DC Motor Sales Quantity by Type (2027-2032) & (K Units)

Table 114. South America Miniature Slotless Brushless DC Motor Sales Quantity by Application (2021-2026) & (K Units)

Table 115. South America Miniature Slotless Brushless DC Motor Sales Quantity by Application (2027-2032) & (K Units)

Table 116. South America Miniature Slotless Brushless DC Motor Sales Quantity by Country (2021-2026) & (K Units)

Table 117. South America Miniature Slotless Brushless DC Motor Sales Quantity by Country (2027-2032) & (K Units)

Table 118. South America Miniature Slotless Brushless DC Motor Consumption Value by Country (2021-2026) & (USD Million)

Table 119. South America Miniature Slotless Brushless DC Motor Consumption Value by Country (2027-2032) & (USD Million)

Table 120. Middle East & Africa Miniature Slotless Brushless DC Motor Sales Quantity by Type (2021-2026) & (K Units)

Table 121. Middle East & Africa Miniature Slotless Brushless DC Motor Sales Quantity by Type (2027-2032) & (K Units)

Table 122. Middle East & Africa Miniature Slotless Brushless DC Motor Sales Quantity by Application (2021-2026) & (K Units)

Table 123. Middle East & Africa Miniature Slotless Brushless DC Motor Sales Quantity by Application (2027-2032) & (K Units)

Table 124. Middle East & Africa Miniature Slotless Brushless DC Motor Sales Quantity by Country (2021-2026) & (K Units)

Table 125. Middle East & Africa Miniature Slotless Brushless DC Motor Sales Quantity by Country (2027-2032) & (K Units)

Table 126. Middle East & Africa Miniature Slotless Brushless DC Motor Consumption Value by Country (2021-2026) & (USD Million)

Table 127. Middle East & Africa Miniature Slotless Brushless DC Motor Consumption Value by Country (2027-2032) & (USD Million)

Table 128. Miniature Slotless Brushless DC Motor Raw Material

Table 129. Key Manufacturers of Miniature Slotless Brushless DC Motor Raw Materials

Table 130. Miniature Slotless Brushless DC Motor Typical Distributors

Table 131. Miniature Slotless Brushless DC Motor Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Miniature Slotless Brushless DC Motor Picture
- Figure 2. Global Miniature Slotless Brushless DC Motor Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Miniature Slotless Brushless DC Motor Revenue Market Share by Type in 2025
- Figure 4. Diameter ?10 mm Examples
- Figure 5. 10 mm ? Diameter ?20 mm Examples
- Figure 6. 20 mm ? Diameter ?30 mm Examples
- Figure 7. Global Miniature Slotless Brushless DC Motor Revenue by Power, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Miniature Slotless Brushless DC Motor Revenue Market Share by Power in 2025
- Figure 9. Power Below 10W Examples
- Figure 10. Power 10-50W Examples
- Figure 11. Power 51-100W Examples
- Figure 12. Power 101-150W Examples
- Figure 13. Global Miniature Slotless Brushless DC Motor Revenue by Rotor and Magnetic-Circuit Configuration, (USD Million), 2021 & 2025 & 2032
- Figure 14. Global Miniature Slotless Brushless DC Motor Revenue Market Share by Rotor and Magnetic-Circuit Configuration in 2025
- Figure 15. Inner-Rotor Radial-Flux Type Examples
- Figure 16. Outer-Rotor Radial-Flux Type Examples
- Figure 17. Axial-Flux or Flat Type Examples
- Figure 18. Global Miniature Slotless Brushless DC Motor Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 19. Global Miniature Slotless Brushless DC Motor Revenue Market Share by Application in 2025
- Figure 20. Medical Industry Examples
- Figure 21. Aerospace and Defense Examples
- Figure 22. Industrial Manufacturing Examples
- Figure 23. Others Examples
- Figure 24. Global Miniature Slotless Brushless DC Motor Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 25. Global Miniature Slotless Brushless DC Motor Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 26. Global Miniature Slotless Brushless DC Motor Sales Quantity (2021-2032) & (K Units)

Figure 27. Global Miniature Slotless Brushless DC Motor Price (2021-2032) & (US\$/Unit)

Figure 28. Global Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Manufacturer in 2025

Figure 29. Global Miniature Slotless Brushless DC Motor Revenue Market Share by Manufacturer in 2025

Figure 30. Producer Shipments of Miniature Slotless Brushless DC Motor by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 31. Top 3 Miniature Slotless Brushless DC Motor Manufacturer (Revenue) Market Share in 2025

Figure 32. Top 6 Miniature Slotless Brushless DC Motor Manufacturer (Revenue) Market Share in 2025

Figure 33. Global Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Region (2021-2032)

Figure 34. Global Miniature Slotless Brushless DC Motor Consumption Value Market Share by Region (2021-2032)

Figure 35. North America Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 36. Europe Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 37. Asia-Pacific Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 38. South America Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 39. Middle East & Africa Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 40. Global Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Type (2021-2032)

Figure 41. Global Miniature Slotless Brushless DC Motor Consumption Value Market Share by Type (2021-2032)

Figure 42. Global Miniature Slotless Brushless DC Motor Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. Global Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Application (2021-2032)

Figure 44. Global Miniature Slotless Brushless DC Motor Revenue Market Share by Application (2021-2032)

Figure 45. Global Miniature Slotless Brushless DC Motor Average Price by Application

(2021-2032) & (US\$/Unit)

Figure 46. North America Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Type (2021-2032)

Figure 47. North America Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Application (2021-2032)

Figure 48. North America Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Country (2021-2032)

Figure 49. North America Miniature Slotless Brushless DC Motor Consumption Value Market Share by Country (2021-2032)

Figure 50. United States Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 51. Canada Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 52. Mexico Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 53. Europe Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Type (2021-2032)

Figure 54. Europe Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Application (2021-2032)

Figure 55. Europe Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Country (2021-2032)

Figure 56. Europe Miniature Slotless Brushless DC Motor Consumption Value Market Share by Country (2021-2032)

Figure 57. Germany Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 58. France Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 59. United Kingdom Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 60. Russia Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 61. Italy Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 62. Asia-Pacific Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Type (2021-2032)

Figure 63. Asia-Pacific Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Application (2021-2032)

Figure 64. Asia-Pacific Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Region (2021-2032)

Figure 65. Asia-Pacific Miniature Slotless Brushless DC Motor Consumption Value Market Share by Region (2021-2032)

Figure 66. China Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 67. Japan Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 68. South Korea Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 69. India Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 70. Southeast Asia Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 71. Australia Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 72. South America Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Type (2021-2032)

Figure 73. South America Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Application (2021-2032)

Figure 74. South America Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Country (2021-2032)

Figure 75. South America Miniature Slotless Brushless DC Motor Consumption Value Market Share by Country (2021-2032)

Figure 76. Brazil Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 77. Argentina Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 78. Middle East & Africa Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Type (2021-2032)

Figure 79. Middle East & Africa Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Application (2021-2032)

Figure 80. Middle East & Africa Miniature Slotless Brushless DC Motor Sales Quantity Market Share by Country (2021-2032)

Figure 81. Middle East & Africa Miniature Slotless Brushless DC Motor Consumption Value Market Share by Country (2021-2032)

Figure 82. Turkey Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 83. Egypt Miniature Slotless Brushless DC Motor Consumption Value (2021-2032) & (USD Million)

Figure 84. Saudi Arabia Miniature Slotless Brushless DC Motor Consumption Value

(2021-2032) & (USD Million)

Figure 85. South Africa Miniature Slotless Brushless DC Motor Consumption Value

(2021-2032) & (USD Million)

Figure 86. Miniature Slotless Brushless DC Motor Market Drivers

Figure 87. Miniature Slotless Brushless DC Motor Market Restraints

Figure 88. Miniature Slotless Brushless DC Motor Market Trends

Figure 89. Porters Five Forces Analysis

Figure 90. Manufacturing Cost Structure Analysis of Miniature Slotless Brushless DC Motor in 2025

Figure 91. Manufacturing Process Analysis of Miniature Slotless Brushless DC Motor

Figure 92. Miniature Slotless Brushless DC Motor Industrial Chain

Figure 93. Sales Channel: Direct to End-User vs Distributors

Figure 94. Direct Channel Pros & Cons

Figure 95. Indirect Channel Pros & Cons

Figure 96. Methodology

Figure 97. Research Process and Data Source

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