

Global Waterproof Stepper 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 Waterproof Stepper Motor market size was valued at US\$ 519 million in 2025 and is forecast to a readjusted size of US\$ 784 million by 2032 with a CAGR of 6.1% during review period.

In 2025, global sales of waterproof stepper motors reached 18 million units, with an average selling price of \$28 per unit. A waterproof stepper motor is a precision drive device that achieves waterproof and dustproof functions through a sealed structure design and the application of protective materials on the basis of a traditional stepper motor. It typically has an IP65 or higher protection rating and can operate stably in high humidity, liquid splashes, and even short-term immersion environments. It is widely used in outdoor automation equipment, medical equipment, food processing machinery, agricultural equipment, and industrial control systems. Its core structure includes a stator, rotor, drive coils, and a sealed housing, achieving environmental isolation through the use of sealing rings, potting compound, and a stainless steel shell.

Upstream raw materials mainly include silicon steel sheets, copper wire, engineering plastics, stainless steel, and sealing rubber, supplied by electromagnetic material suppliers and precision machining companies; downstream customers are mainly automation equipment manufacturers, intelligent equipment companies, and terminal system integrators. In the future, as industrial automation extends to complex environments and the trend of intelligent equipment going outdoors increases, waterproof stepper motors will develop towards higher protection levels, longer lifespans, and greater integration. The current total industry capacity is approximately 22 million units per year, with a gross profit margin of about 25%. Downstream consumption is dominated by industrial automation equipment, followed by medical and

food equipment, and outdoor application equipment. Upstream material consumption is primarily copper and silicon steel, which account for a significant portion of costs.

Demand continues to expand, driven by growth in intelligent manufacturing, smart agriculture, and outdoor intelligent equipment. New business opportunities also exist in the fields of new energy equipment and special robots. Overall, this product possesses stable growth potential and good room for technological upgrades.

The waterproof stepper motor market is experiencing continuous growth driven by increasing demands for industrial automation, intelligent outdoor equipment, and applications in harsh environments. Compared to ordinary stepper motors, waterproof stepper motors, through their sealed structure design, corrosion-resistant materials, and special protective processes, can operate stably for extended periods in humid, dusty, high-salt-spray, and water-spraying environments. Therefore, they are widely used in industrial automation equipment, food processing machinery, medical equipment, agricultural equipment, photovoltaic equipment, water treatment systems, and outdoor intelligent terminals. As global manufacturing demands for equipment reliability and operational stability continue to rise, waterproof stepper motors are becoming an important component of motion control systems for special operating conditions.

From a market demand perspective, industrial automation remains the largest application area. Food and beverage processing, packaging machinery, pharmaceutical equipment, and water treatment equipment have high requirements for the waterproof, dustproof, and hygienic performance of motors, continuously driving the growth in demand for high-protection-level products. Simultaneously, the rapid development of emerging markets such as agricultural automation, intelligent irrigation systems, photovoltaic tracking brackets, and outdoor robots is also bringing new incremental demand for waterproof stepper motors. In recent years, with the expansion of the new energy industry and the intelligent equipment sector, the application scope of waterproof stepper motors, with their high-precision positioning and adaptability to harsh environments, has been continuously expanding.

From a technological development trend perspective, waterproof stepper motors are evolving towards higher protection levels, higher efficiency, and greater intelligence. Demand for IP65, IP67, and even IP69K rated products continues to grow to meet the application requirements of food processing, outdoor equipment, and high-pressure washing environments. Simultaneously, the application of high-performance permanent magnet materials, low-loss winding designs, and precision sealing technologies is

continuously improving product efficiency and lifespan. Intelligent waterproof stepper motors integrating encoders, closed-loop control systems, and remote status monitoring functions are also gradually becoming a market focus, contributing to improved equipment operating accuracy and maintenance efficiency.

Overall, waterproof stepper motors represent an important sub-market within the industrial motion control sector, with demand driven by automation upgrades, increased equipment reliability requirements, and the development of outdoor intelligent equipment. In the future, with the continued expansion of the intelligent manufacturing, new energy equipment, agricultural automation, and industrial robot markets, high-performance, high-protection, and intelligent products will become the main growth direction for the industry. Companies with core motor design capabilities, sealing technology advantages, and industry-customized experience are expected to gain greater development space in future market competition.

This report is a detailed and comprehensive analysis for global Waterproof Stepper 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 Waterproof Stepper Motor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Waterproof Stepper 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 Waterproof Stepper 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 Waterproof Stepper 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 Waterproof Stepper 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 Waterproof Stepper 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 JKONGMOTOR, Empire Magnetics, GEMS Motor, Moons Industries, Minemotor, HDB MOTOR, HANPOSE, LeanMotor, BesFoc, LIKONG, etc.

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

Market Segmentation

Waterproof Stepper 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

20-frame

28-frame

42-frame

Others

Market segment by Protection Rating

Protection Rating: IP54

Protection Rating: IP65

Protection Rating: IP66

Market segment by Function

Waterproof/Dustproof Only

With Brake

With Encoder

Others

Market segment by Application

Industrial Automation

Medical Equipment

Agricultural Equipment

Others

Major players covered

JKONGMOTOR

Empire Magnetics

GEMS Motor

Moons Industries

Minemotor

HDB MOTOR

HANPOSE

LeanMotor

BesFoc

LIKONG

Prostepper

DINGTUODA

HOLRY Motor

FUXING

Kollmorgen

NAINUO

JVL Industri Elektronik

Techno Drive

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 Waterproof Stepper Motor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Waterproof Stepper Motor, with price, sales quantity, revenue, and global market share of Waterproof Stepper Motor from 2021 to 2026.

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

Chapter 4, the Waterproof Stepper 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 Waterproof Stepper 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 Waterproof Stepper Motor.

Chapter 14 and 15, to describe Waterproof Stepper Motor sales channel, distributors, customers, research findings and conclusion.

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