

Global Shaft-Type Ironless Linear 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 Shaft-Type Ironless Linear Motor market size was valued at US\$ 195 million in 2025 and is forecast to a readjusted size of US\$ 330 million by 2032 with a CAGR of 7.9% during review period.

In 2025, global production of shaft-type ironless linear motors reached 162,000 units, with an estimated average selling price of US\$1,170 per unit. A shaft-type ironless linear motor is a direct-drive linear servo motor consisting of a cylindrical magnetic shaft/bar and a cylindrical winding mover sleeved around the magnetic shaft. Its magnetic shaft is typically composed of a non-magnetic stainless steel tube and stacked internal annular permanent magnets. The coil mover performs non-contact linear motion around the magnetic shaft. Applications include semiconductor inspection and handling, electronic assembly, optical platforms, medical and life science equipment, laboratory automation, small high-speed sorting, precision measurement, dispensing and mounting, micro-automation platforms, EDM/precision machine tools, etc. The upstream of the industry chain includes neodymium iron boron permanent magnet materials, non-magnetic stainless steel pipes, copper wire/enamelled wire, epoxy potting materials, Hall effect elements, temperature sensors, encoders, linear guides, servo drives, power devices, precision machined parts, cables, and connectors; the midstream includes magnetic shaft assembly, toroidal magnet magnetization and arrangement, cylindrical coil winding, potting and encapsulation, air gap control, thermal management, drive matching, and precision testing; the downstream consists of semiconductor equipment manufacturers, automation platform manufacturers, medical and life science equipment manufacturers, testing equipment manufacturers, precision machine tool manufacturers, and motion control system integrators. Gross profit margins range from approximately 25% to 45%.

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

Global Shaft-Type Ironless Linear 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 Shaft-Type Ironless Linear 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 Shaft-Type Ironless Linear 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 Shaft-Type Ironless Linear 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 Shaft-Type Ironless Linear 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 Aerotech, Allient, Rockwell Automation, ETEL, H2W Technologies, IAI, Kollmorgen, LinMot, Moog, Nippon Pulse America, etc.

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

Market Segmentation

Shaft-Type Ironless Linear 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

Fixed Magnetic Shaft/Moving Coil Type

Moving Magnetic Shaft/Fixed Coil Type

Market segment by Drive Method

Three-Phase Brushless Servo Type

Hall Commutation Type

Encoder Closed-Loop Type

Sensorless Control Type

Market segment by Cooling Method

Natural Cooling

Air Cooling

Water Cooling/Liquid Cooling

Market segment by Performance

High-Speed High-Acceleration Type

High-Precision Low-Fluctuation Type

Long-Stroke Type

Cleanroom/Vacuum Compatible Type

Miniature Precision Type

Market segment by Application

Semiconductor Equipment

Laser Processing

Precision Measurement

Life Science and Medical Equipment

Others

Major players covered

Aerotech

Allient

Rockwell Automation

ETEL

H2W Technologies

IAI

Kollmorgen

LinMot

Moog

Nippon Pulse America

Novelx

OES

Panasonic Corporation

Parker Hannifin

PI

PMI Motion Technologies

Schneider Electric

Yaskawa Electric Corporation

Zaber Technologies Inc.

Tecnotion

Unimotion

YASKAWA

TOYO Automation

Shenzhen Bozhida Precision Machinery

PBA Systems (China)

Changsha Epoch Direct Drive Technology

Qunke Intelligent

Viso Automation

HAN'S MOTOR

Suzhou Lingchen Acquisition Computer

Shanghai Mindong Mechanism Electron

Direc Precision Engineering

Ningbo Tongchuang Magnetic Materials

Foshan Demart Intelligent Equipment Technology

Jiangxi Han Drive Intelligence Technology

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 Shaft-Type Ironless Linear Motor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Shaft-Type Ironless Linear Motor, with price, sales quantity, revenue, and global market share of Shaft-Type Ironless Linear Motor from 2021 to 2026.

Chapter 3, the Shaft-Type Ironless Linear Motor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Shaft-Type Ironless Linear 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 Shaft-Type Ironless Linear 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 Shaft-Type Ironless Linear Motor.

Chapter 14 and 15, to describe Shaft-Type Ironless Linear Motor sales channel, distributors, customers, research findings and conclusion.

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