

Global Three-Phase AC Ironless Linear Motor Market Growth 2026-2032

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Abstracts

The global Three-Phase AC Ironless Linear Motor market size is predicted to grow from US\$ 806 million in 2025 to US\$ 1393 million in 2032; it is expected to grow at a CAGR of 8.4% from 2026 to 2032.

In 2025, global production of three-phase AC ironless linear motors reached 580,000 units, with an estimated average selling price of US\$1,420 per unit. A three-phase AC coreless linear motor is a type of coreless direct-drive motor that uses three-phase AC servo drive to directly generate linear thrust through the electromagnetic interaction between the three-phase windings and the permanent magnet track. It typically consists of a coreless coil mover, double-sided permanent magnet tracks, linear guides, an encoder, a servo driver, and a motion controller. Its coil mover does not contain an iron core and is usually embedded in epoxy resin or a non-magnetic carrier. Therefore, there is no obvious magnetic attraction or cogging effect between it and the magnetic track, which can achieve low thrust fluctuation, low speed ripple, high acceleration, high response, and high positioning accuracy. It is suitable for applications such as semiconductor equipment, precision testing, laser processing, electronic assembly, medical and life science equipment, optical platforms, high-speed sorting, and high-precision automated production lines. The upstream of the industry chain mainly includes neodymium iron boron permanent magnet materials, copper wire/enamelled wire, epoxy resin and potting materials, aluminum alloys and precision structural components, encoders, guide rails, drivers, power devices, temperature sensors, connecting harnesses and heat dissipation materials; the midstream includes coil winding, potting and encapsulation, magnetic track assembly, linear motor body manufacturing, thermal management design, servo drive matching, platform integration and testing calibration; the downstream mainly serves semiconductor equipment manufacturers, automation platform manufacturers, laser equipment manufacturers,

testing equipment manufacturers, medical and life science equipment manufacturers, and precision motion control system integrators. Gross profit margins range from approximately 25% to 45%.

United States market for Three-Phase AC Ironless Linear Motor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Three-Phase AC Ironless Linear Motor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Three-Phase AC Ironless Linear Motor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Three-Phase AC Ironless Linear Motor players cover Aerotech, Allient, Rockwell Automation, ETEL, H2W Technologies, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Three-Phase AC Ironless Linear Motor Industry Forecast" looks at past sales and reviews total world Three-Phase AC Ironless Linear Motor sales in 2025, providing a comprehensive analysis by region and market sector of projected Three-Phase AC Ironless Linear Motor sales for 2026 through 2032. With Three-Phase AC Ironless Linear Motor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Three-Phase AC Ironless Linear Motor industry.

This Insight Report provides a comprehensive analysis of the global Three-Phase AC Ironless Linear Motor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Three-Phase AC Ironless Linear Motor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Three-Phase AC Ironless Linear Motor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Three-Phase AC Ironless Linear Motor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-

up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Three-Phase AC Ironless Linear Motor.

This report presents a comprehensive overview, market shares, and growth opportunities of Three-Phase AC Ironless Linear Motor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

U-Shaped Magnetic Track

Dual Magnetic Track

Modular Magnetic Track

Segmentation by Motion Platform:

Single Axis

XY Platform

Gantry Platform

Segmentation by Cooling Method:

Natural Cooling

Air Cooling

Water Cooling/Liquid Cooling

Segmentation by Performance:

High-Speed High-Acceleration Type

High-Precision Low-Fluctuation Type

Long-Stroke Type

Cleanroom/Vacuum Compatible Type

Miniature Precision Type

Segmentation by Application:

Semiconductor Equipment

Laser Processing

Precision Measurement

Life Science and Medical Equipment

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Three-Phase AC Ironless Linear Motor market?

What factors are driving Three-Phase AC Ironless Linear Motor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Three-Phase AC Ironless Linear Motor market opportunities vary by end market size?

How does Three-Phase AC Ironless Linear Motor break out by Type, by Application?

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