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Global Coreless U-shape Linear Motor Market Growth 2025-2031

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Abstracts

The global Coreless U-shape Linear Motor market size is predicted to grow from US$ 317 million in 2025 to US$ 461 million in 2031; it is expected to grow at a CAGR of 6.4% from 2025 to 2031.

The Coreless U-shape linear motor is a specialized type of linear electric motor that features a coreless design with a U-shaped magnetic circuit to generate linear driving force. Unlike traditional core-based linear motors, the coreless U-shape motor eliminates the iron core, reducing hysteresis and eddy current losses, resulting in higher efficiency and faster response times. The U-shape structure provides a more uniform magnetic field distribution, improving motion accuracy and control performance. This type of motor is widely used in precision positioning systems, automated production lines, robotic control, and other applications, particularly in scenarios that require high precision, low friction, and rapid response speeds.

United States market for Coreless U-shape Linear Motor is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Coreless U-shape Linear Motor is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Coreless U-shape Linear Motor is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Coreless U-shape Linear Motor players cover Yaskawa, Bosch Rexroth AG, Parker, CKD, NSK, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

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LP Information, Inc. (LPI) ' newest research report, the “Coreless U-shape Linear Motor Industry Forecast” looks at past sales and reviews total world Coreless U-shape Linear Motor sales in 2024, providing a comprehensive analysis by region and market sector of projected Coreless U-shape Linear Motor sales for 2025 through 2031. With Coreless U-shape Linear Motor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Coreless U-shape Linear Motor industry.

This Insight Report provides a comprehensive analysis of the global Coreless U-shape 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 Coreless U-shape Linear Motor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Coreless U-shape Linear Motor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Coreless U-shape 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 Coreless U-shape Linear Motor.

This report presents a comprehensive overview, market shares, and growth opportunities of Coreless U-shape Linear Motor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-side Drive Type

Dual-side Drive Type

Segmentation by Application:

Robots

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Machine Tools

Semiconductor Manufacturing Equipment

Electronic Manufacturing Equipment

Medical Devices

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

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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.

Yaskawa

Bosch Rexroth AG

Parker

CKD

NSK

Mitsubishi Electric Corporation

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Rockwell Automation Inc

Kollmorgen

Schaeffler Technologies

ETEL SA

Hiwin

Nidec

Celera Motion (Novanta)

Moog Inc

Siemens

Shenzhen Han's Motor S&T Co

Key Questions Addressed in this Report

What is the 10-year outlook for the global Coreless U-shape Linear Motor market?
What factors are driving Coreless U-shape Linear Motor market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Coreless U-shape Linear Motor market opportunities vary by end market size?
How does Coreless U-shape Linear Motor break out by Type, by Application?

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