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Global Humanoid Robot Frameless Motors Market Growth 2025-2031

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Abstracts

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The global Humanoid Robot Frameless Motors market size is predicted to grow from US$ 62.4 million in 2025 to US$ 602 million in 2031; it is expected to grow at a CAGR of 45.9% from 2025 to 2031.

Frameless torque motors are different from traditional servo motors. They have no housing and only two parts: the stator and the rotor. Compared with framed motors, frameless motors are flexible in configuration and easy to install. Frameless motors are very suitable for joint driving of humanoid robots due to their small size and high torque.

United States market for Humanoid Robot Frameless Motors 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 Humanoid Robot Frameless Motors 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 Humanoid Robot Frameless Motors is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Humanoid Robot Frameless Motors players cover MAXON, Nidec, Kollmorgen (Regal Rexnord), Portescap (Regal Rexnord), TQ-Systems GmbH, 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 “Humanoid Robot Frameless Motors Industry Forecast” looks at past sales and reviews total world Humanoid Robot Frameless Motors sales in 2024, providing a comprehensive analysis by region and market sector of projected Humanoid Robot Frameless Motors sales for 2025 through 2031. With Humanoid Robot Frameless Motors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Humanoid Robot Frameless Motors industry.

This Insight Report provides a comprehensive analysis of the global Humanoid Robot Frameless Motors 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 Humanoid Robot Frameless Motors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Humanoid Robot Frameless Motors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Humanoid Robot Frameless Motors and breaks down the forecast by Torque(N.m), 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 Humanoid Robot Frameless Motors.

This report presents a comprehensive overview, market shares, and growth opportunities of Humanoid Robot Frameless Motors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Torque(N.m):

3 Below

3-6

6 Above

Segmentation by Application:

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Rotary Joints

Linear Joints

Other

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

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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.

MAXON

Nidec

Kollmorgen (Regal Rexnord)

Portescap (Regal Rexnord)

TQ-Systems GmbH

Suzhou Veichi Electric

Kinco Automation

Guangzhou Haozhi Industrial

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Zhejiang He Chuan Technology Corporation

Jiangsu Leili Motor

Shenzhen Leisai Intelligent Control Stock

Jiangnan Yifan Motor

Shenzhen Mosrac Motor

Key Questions Addressed in this Report

What is the 10-year outlook for the global Humanoid Robot Frameless Motors market?

What factors are driving Humanoid Robot Frameless Motors market growth, globally and by region?

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

How do Humanoid Robot Frameless Motors market opportunities vary by end market size?

How does Humanoid Robot Frameless Motors break out by Torque(N.m), by Application?

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