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Global Humanoid Robot Ankle Module Market Growth 2026-2032

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Abstracts

The global Humanoid Robot Ankle Module market size is predicted to grow from US$ 382 million in 2025 to US$ 1632 million in 2032; it is expected to grow at a CAGR of 22.9% from 2026 to 2032.

In 2025, global Humanoid Robot Ankle Module production reached approximately 390 thousand units, with an average global market price of around USD 1000 per unit.

The gross profit margin of major companies in the industry was approximately 30%–48%.

In 2025, global production capacity of Humanoid Robot Ankle Module was approximately 500 thousand units.

Humanoid Robot Ankle Modules are integrated joint assemblies that provide controlled pitch, roll, or multi-axis motion between the lower leg and foot of humanoid robots. They typically combine motors, reducers, bearings, encoders, force or torque sensors, structural housings, and control interfaces. The module must deliver high torque density, compact size, low backlash, impact resistance, precise force control, and sufficient compliance for walking, balance, terrain adaptation, and dynamic motion.

The industrial chain of Humanoid Robot Ankle Module includes upstream motors, harmonic or planetary reducers, bearings, encoders, force sensors, controllers, gears, aluminum alloys, and structural components; midstream covers joint design, mechanical integration, machining, assembly, calibration, control tuning, load testing, and reliability validation; downstream applications mainly include humanoid robots, biped robots, research platforms, service robots, and industrial humanoid systems.

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United States market for Humanoid Robot Ankle Module 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 Humanoid Robot Ankle Module 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 Humanoid Robot Ankle Module is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Humanoid Robot Ankle Module players cover Harmonic Drive Systems Inc., Nabtesco Corporation, maxon international ag, TQ-Systems GmbH, Schaeffler AG, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Humanoid Robot Ankle Module Industry Forecast” looks at past sales and reviews total world Humanoid Robot Ankle Module sales in 2025, providing a comprehensive analysis by region and market sector of projected Humanoid Robot Ankle Module sales for 2026 through 2032. With Humanoid Robot Ankle Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Humanoid Robot Ankle Module industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Humanoid Robot Ankle Module 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 Humanoid Robot Ankle

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Module.

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

Market Segmentation

Segmentation by Type:

Rotary Actuator Ankle Modules

Linear Actuator Ankle Modules

Parallel-link Ankle Modules

Segmentation by Compliance Structure:

Rigid Transmission Modules

Series Elastic Modules

Variable-stiffness Modules

Segmentation by Supported Degrees of Freedom:

Single-DOF?1 DOF?

Dual-DOF?2 DOF?

Multi-DOF??2 DOF?

Segmentation by Application:

Gait Propulsion and Foot Positioning

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Balance and Posture Stabilization

Impact Absorption and Terrain Adaptation

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.

Harmonic Drive Systems Inc.

Nabtesco Corporation

maxon international ag

TQ-Systems GmbH

Schaeffler AG

ROBOTIS Co., Ltd.

Moog Inc.

Leader Harmonious Drive Systems Co., Ltd.

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Zhejiang Shuanghuan Driveline Co., Ltd.

Shenzhen Inovance Technology Co., Ltd.

Ningbo Tuopu Group Co., Ltd.

Shanghai Beite Technology Co., Ltd.

MOONS' Electric Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Humanoid Robot Ankle Module market?

What factors are driving Humanoid Robot Ankle Module market growth, globally and by region?

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

How do Humanoid Robot Ankle Module market opportunities vary by end market size?

How does Humanoid Robot Ankle Module break out by Type, by Application?

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