

Global Casting for Humanoid Robots Market Growth 2026-2032

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Abstracts

The global Casting for Humanoid Robots market size is predicted to grow from US\$ 41.98 million in 2025 to US\$ 424 million in 2032; it is expected to grow at a CAGR of 38.7% from 2026 to 2032.

Casting for humanoid robots refers to the precision forming technology that melts metal, pours it into a mold cavity, solidifies by cooling, and then produces blanks for structural parts, joint housings, reducer casings, lightweight frames, bases and transmission components of humanoid robots through cleaning and machining. It is one of the core processes to achieve high rigidity, lightweight, low cost and integrated forming of complex structures for robots. In 2025, global casting for humanoid robots production reached approximately 4325.6 MT. Upstream: Supply of raw materials and auxiliary materials such as aluminum ingots, magnesium ingots, pig iron, alloy additives, foundry sand, release agents, and die steel. Downstream: Humanoid robot manufacturers, joint and reducer suppliers, and system integrators, which assemble castings into structural systems, transmission systems, and locomotion systems

The market for Casting for Humanoid Robots is entering a period of rapid growth in line with mass production of complete robots, with 2026 marking an inflection point for volume expansion. Precision aluminum die casting dominates the market, while lightweight magnesium alloy castings are gaining rapid adoption. Castings are mainly applied to core structural components such as joint housings, reducer casings, torso and limb frames, and bases. The industry is trending toward lightweight construction, high rigidity, high precision, and integrated forming. Leading die-casting and precision casting players are accelerating their entry, and cross-utilization of automotive die-casting capacity is further driving cost reduction and large-scale delivery.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Casting for Humanoid Robots 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 Casting for Humanoid Robots.

This report presents a comprehensive overview, market shares, and growth opportunities of Casting for Humanoid Robots market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Joint Structural Components

Integrated Actuator Housing

Trunk/Skeleton Structural Components

Others

Segmentation by Material System:

Aluminum Alloy

Magnesium Alloy

Titanium Alloy

Steel

Others

Segmentation by Casting Process:

High-Pressure Die Casting?HPDC?

Low-Pressure Die Casting

Gravity Die Casting

Others

Segmentation by Structural Function:

Load-Bearing Structural Castings

Transmission & Motion Castings

Segmentation by Application:

Industrial Humanoid Robot Castings

Service Humanoid Robot Castings

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.

Grohmann Group

Watry Industries

JAI A/S

Precision Enterprises, Inc

Precise Cast, Inc

Xusheng Group Co., Ltd

Kangshuo Group

KURITA SANGYOH

Tokorozawa Alloy Foundry

Nippon Chuzo

Matsushita Industry

Chuo Malleable Iron

TAIKO KIKAI

Donper Electromechanical

Key Questions Addressed in this Report

What is the 10-year outlook for the global Casting for Humanoid Robots market?

What factors are driving Casting for Humanoid Robots market growth, globally and by region?

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

How do Casting for Humanoid Robots market opportunities vary by end market size?

How does Casting for Humanoid Robots break out by Type, by Application?

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