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Global Casting for Humanoid Robots Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Casting for Humanoid Robots market size is expected to reach $ 347 million by 2032, rising at a market growth of 53.8% CAGR during the forecast period (2026-2032).

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 702.43 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.

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This report studies the global Casting for Humanoid Robots production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Casting for Humanoid Robots and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Casting for Humanoid Robots that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Casting for Humanoid Robots total production and demand, 2021-2032, (Tons)
Global Casting for Humanoid Robots total production value, 2021-2032, (USD Million)
Global Casting for Humanoid Robots production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global Casting for Humanoid Robots consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: Casting for Humanoid Robots domestic production, consumption, key domestic manufacturers and share
Global Casting for Humanoid Robots production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global Casting for Humanoid Robots production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global Casting for Humanoid Robots production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Casting for Humanoid Robots market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Casting for Humanoid Robots market

Detailed Segmentation:

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Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Casting for Humanoid Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Casting for Humanoid Robots Market, Segmentation by Type:

Joint Structural Components

Integrated Actuator Housing

Trunk/Skeleton Structural Components

Others

Global Casting for Humanoid Robots Market, Segmentation by Material System:

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Aluminum Alloy

Magnesium Alloy

Titanium Alloy

Steel

Others

Global Casting for Humanoid Robots Market, Segmentation by Casting Process:

High-Pressure Die Casting?HPDC?

Low-Pressure Die Casting

Gravity Die Casting

Others

Global Casting for Humanoid Robots Market, Segmentation by Structural Function:

Load-Bearing Structural Castings

Transmission & Motion Castings

Global Casting for Humanoid Robots Market, Segmentation by Application:

Industrial Humanoid Robot Castings

Service Humanoid Robot Castings

Others

Companies Profiled:

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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 Answered:
1. How big is the global Casting for Humanoid Robots market?
2. What is the demand of the global Casting for Humanoid Robots market?
3. What is the year over year growth of the global Casting for Humanoid Robots market?
4. What is the production and production value of the global Casting for Humanoid Robots market?
5. Who are the key producers in the global Casting for Humanoid Robots market?
6. What are the growth factors driving the market demand?

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