

Global Robot Bearing Steel Balls Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Robot Bearing Steel Balls market size was valued at US\$ 56.64 million in 2025 and is forecast to a readjusted size of US\$ 89.78 million by 2032 with a CAGR of 6.9% during review period.

Robot bearing steel balls are high-precision rolling elements specifically designed for use in bearings of industrial robots, collaborative robots, humanoid robots, robot reducers, and precision motion mechanisms. They are typically manufactured using high-carbon chromium bearing steel, stainless steel, ceramics, or hybrid materials. Through precision machining and ultra-precision grinding processes, they achieve extremely high dimensional accuracy, roundness, surface finish, and material purity to meet the requirements of long-term, high-speed, high-load, and high-repeatability positioning operation of robot joints.

The upstream of the industry chain mainly includes suppliers of bearing steel raw materials, special steel smelting enterprises, and suppliers of heat treatment, abrasives, and precision testing equipment. Core materials are primarily GCr15 high-carbon chromium bearing steel, vacuum degassed bearing steel, and high-purity special steel. The midstream is the manufacturing stage of robot bearing steel balls, including cold heading, heat treatment, rough grinding, fine grinding, lapping, polishing, and grading testing. Downstream applications are mainly in industrial robots, collaborative robots, and humanoid robots.

In 2025, global sales of robot bearing steel balls reached 16,400 tons, with a production capacity of approximately 23,400 tons. The average selling price was US\$3,357 per ton,

and the average gross profit margin was 20%-30%.

Policies promoting intelligent manufacturing, high-end equipment manufacturing, and the robotics industry in various countries have provided a favorable environment for the development of the robot bearing steel ball market. Major economies such as China, the United States, Japan, and Germany have all listed robotics and intelligent equipment as key development areas, driving investment growth in the core component supply chain of robots. Meanwhile, the localization process of key components such as robot reducers and precision bearings is progressing steadily, leading to the gradual localization of the high-precision steel ball supply system. In recent years, the accelerated industrialization of humanoid robots and active financing for core robot components have further increased market attention.

This report is a detailed and comprehensive analysis for global Robot Bearing Steel Balls market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Robot Bearing Steel Balls market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Robot Bearing Steel Balls market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Robot Bearing Steel Balls market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Robot Bearing Steel Balls market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Robot Bearing Steel Balls

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Robot Bearing Steel Balls market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AKS Balls, Tsubaki Nakashima, Daio Steel Ball, SKF, UMBRAGROUP, JGBR, Preciball, Spheric Trafalgar, SMB Bearings, RGPBALLS, etc.

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

Market Segmentation

Robot Bearing Steel Balls market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Chromium Steel Balls

Stainless Steel Balls

Carbon Steel Balls

Others

Market segment by Accuracy Classes

G3

G5

G10

G16 and Below

Market segment by Ball Diameter Specifications

3 mm

3-10 mm

10-20 mm

20 mm

Market segment by Application

Industrial Robots

Collaborative Robots

Humanoid Robots

Others

Major players covered

AKS Balls

Tsubaki Nakashima

Daio Steel Ball

SKF

UMBRAGROUP

JGBR

Preciball

Spheric Trafalgar

SMB Bearings

RGPBALLS

SBB Tech

Lixing Shares

Dong'e Steel Balls

Shanghai Steel Ball Factory

Qingdao Feiyan

Luoyang Mingzhen Bearings

Dong'e Samsung Steel Balls

Fuxin Tianyuan Steel Balls

Changzhou Sunan Weijie Steel Balls

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Robot Bearing Steel Balls product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Robot Bearing Steel Balls, with price, sales quantity, revenue, and global market share of Robot Bearing Steel Balls from 2021 to 2026.

Chapter 3, the Robot Bearing Steel Balls competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Robot Bearing Steel Balls breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Robot Bearing Steel Balls market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Robot Bearing Steel Balls.

Chapter 14 and 15, to describe Robot Bearing Steel Balls sales channel, distributors, customers, research findings and conclusion.

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