

Global Precision Rolling Elements for Robot Bearings 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 Precision Rolling Elements for Robot Bearings market size was valued at US\$ 65.54 million in 2025 and is forecast to a readjusted size of US\$ 111 million by 2032 with a CAGR of 7.8% during review period.

Precision rolling elements for robot bearings are high-precision components designed for industrial robots, collaborative robots, humanoid robots, and high-end intelligent machinery bearings. They primarily include steel balls, rollers, needles, cross rollers, and ceramic balls, typically made of bearing steel or ceramic with precision grades ranging from G3 to G10. The core features include high accuracy, rigidity, low friction, high durability, and stable rotation performance, enabling precise operation in robot reducers, joint bearings, actuators, and precision transmission mechanisms. In 2025, global shipments of Precision Rolling Elements for Robot Bearings reached 3,500 tons, with a unit price of approximately US\$18,200 per ton and a gross profit margin of approximately 29%-39%.

With the rapid growth of industrial automation, smart manufacturing, and the robotics industry, the demand for high-precision, durable, and stable rolling elements continues to rise. Humanoid robots, collaborative robots, and high-end industrial robots require bearings with high precision and load capacity, making G3?G10 precision steel balls and rollers critical components. Domestic manufacturers are increasingly improving material quality, heat treatment, and precision machining, gradually replacing imports in high-end markets such as robotics, CNC machinery, and aerospace. The expansion of AI-driven robotics applications and increasing robot installations is expected to drive sustained market growth for precision rolling elements for robot bearings.

This report is a detailed and comprehensive analysis for global Precision Rolling Elements for Robot Bearings 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 Precision Rolling Elements for Robot Bearings market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Precision Rolling Elements for Robot Bearings market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Precision Rolling Elements for Robot Bearings 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 Precision Rolling Elements for Robot Bearings 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 Precision Rolling Elements for Robot Bearings

- 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 Precision Rolling Elements for Robot

Bearings 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 Tsubaki Nakashima, Daio Steel Ball, Amatsuji Steel Ball Mfg. Co., Ltd., STR Industries., Hartford Technologies, Inc., SHANDONG DONGE STEEL BALL GROUP CO.,LTD., Jiangsu Lixing General Steel Ball Co.,Ltd., Shanghai E-Tech Steel Ball Co.,Ltd., etc.

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

Market Segmentation

Precision Rolling Elements for Robot Bearings 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

Balls

Rollers

Others

Market segment by Product

Steel Ball

Ceramic Ball

Cylindrical Roller

Tapered Roller

Needle Roller

Crossed Roller

Others

Market segment by Bearing

Joint Bearings

Reducer Bearings

Servo Motor Bearings

Ball Screw Support Bearings

Others

Market segment by Application

Industrial Robot

Humanoid Robot

Others

Major players covered

Tsubaki Nakashima

Daio Steel Ball

Amatsuji Steel Ball Mfg. Co., Ltd.

STR Industries.

Hartford Technologies, Inc.

SHANDONG DONGE STEEL BALL GROUP CO.,LTD.

Jiangsu Lixing General Steel Ball Co.,Ltd.

Shanghai E-Tech Steel Ball Co.,Ltd.

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 Precision Rolling Elements for Robot Bearings product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Precision Rolling Elements for Robot Bearings, with price, sales quantity, revenue, and global market share of Precision Rolling Elements for Robot Bearings from 2021 to 2026.

Chapter 3, the Precision Rolling Elements for Robot Bearings competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Precision Rolling Elements for Robot Bearings 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 Precision Rolling Elements for Robot Bearings 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 Precision Rolling Elements for Robot Bearings.

Chapter 14 and 15, to describe Precision Rolling Elements for Robot Bearings sales channel, distributors, customers, research findings and conclusion.

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