

Global Precision Rolling Elements for Robot Bearings Market Growth 2026-2032

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Abstracts

The global Precision Rolling Elements for Robot Bearings market size is predicted to grow from US\$ 62.31 million in 2025 to US\$ 109 million in 2032; it is expected to grow at a CAGR of 8.3% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the "Precision Rolling Elements for

Robot Bearings Industry Forecast? looks at past sales and reviews total world Precision Rolling Elements for Robot Bearings sales in 2025, providing a comprehensive analysis by region and market sector of projected Precision Rolling Elements for Robot Bearings sales for 2026 through 2032. With Precision Rolling Elements for Robot Bearings sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Precision Rolling Elements for Robot Bearings industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Precision Rolling Elements for Robot Bearings 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 Precision Rolling Elements for Robot Bearings.

This report presents a comprehensive overview, market shares, and growth opportunities of Precision Rolling Elements for Robot Bearings market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Balls

Rollers

Others

Segmentation by Product:

Steel Ball

Ceramic Ball

Cylindrical Roller

Tapered Roller

Needle Roller

Crossed Roller

Others

Segmentation by Bearing:

Joint Bearings

Reducer Bearings

Servo Motor Bearings

Ball Screw Support Bearings

Others

Segmentation by Application:

Industrial Robot

Humanoid Robot

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.

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.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Precision Rolling Elements for Robot Bearings market?

What factors are driving Precision Rolling Elements for Robot Bearings market growth, globally and by region?

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

How do Precision Rolling Elements for Robot Bearings market opportunities vary by end market size?

How does Precision Rolling Elements for Robot Bearings break out by Type, by Application?

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