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Global Robot Joint Bearings Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Robot Joint Bearings market size is predicted to grow from US$ 1203 million in 2025 to US$ 2028 million in 2032; it is expected to grow at a CAGR of 7.8% from 2026 to 2032.

Robot Joint Bearings are precision bearing products specifically designed for rotational support, positioning, load transmission, and motion control in robot joint systems. They are mainly installed in the waist, shoulder, elbow, wrist, hip, knee, ankle, and other articulated positions of industrial robots, collaborative robots, humanoid robots, medical robots, and service robots. Depending on joint structure and transmission configuration, typical products include crossed roller bearings, thin-section ball bearings, needle roller bearings, angular contact bearings, four-point contact bearings, flexible bearings for strain wave gears, and other specialized precision bearings. These bearings generally require high rigidity, high rotational accuracy, compact dimensions, low friction, low weight, and long service life to meet the requirements of high-precision and high-dynamic robot motion. The market scope covers bearing products directly used in robot joints, joint reducers, and joint actuators, but excludes complete reducers, motors, actuators, joint modules, and general-purpose bearings used outside robot joint systems.

United States market for Robot Joint Bearings is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Robot Joint Bearings is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Robot Joint Bearings is estimated to increase from US$ million in

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2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Robot Joint Bearings players cover NSK Ltd., Schaeffler AG, NTN Corporation, JTEKT CORPORATION, THK CO., LTD., etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Robot Joint 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 analyses the strategies of leading global companies with a focus on Robot Joint Bearings portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Robot Joint Bearings market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Robot Joint Bearings and breaks down the forecast by Precision Grade Types, 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 Robot Joint Bearings.

This report presents a comprehensive overview, market shares, and growth opportunities of Robot Joint Bearings market by product type, application, key players and key regions and countries.

Market Segmentation

Segmentation by Precision Grade Types:

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Normal Precision (P0/P6)

High Precision (P5/P4)

Ultra-High Precision (P2)

Segmentation by Bearing Structure Types:

Crossed Roller Bearings

Thin-Section Ball Bearings

Needle Roller Bearings

Others

Segmentation by Bearing Outside Diameter Types:

Below 50 mm

50–100 mm

Above 100 mm

Segmentation by Application:

Industrial Robot Joints (Waist, Shoulder, Elbow, and Wrist Joints)

Collaborative Robot Joints

Humanoid Robot Joints (Shoulder, Elbow, Wrist, Hip, Knee, and Ankle Joints)

Medical Robot Joints

Others

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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

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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 analyzing the company's coverage, product portfolio, its market penetration.

NSK Ltd.

Schaeffler AG

NTN Corporation

JTEKT CORPORATION

THK CO., LTD.

NIPPON THOMPSON CO., LTD.

AB SKF

C&U Company Limited

The Timken Company

RBC Bearings Incorporated

Zhejiang XCC Group Co., Ltd.

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Luoyang Bearing Research Institute Co., Ltd.

LUOYANG HONGYUAN BEARING TECHNOLOGY CO., LTD.

HIWIN Technologies Corp.

Jiangsu Nanfang Precision Co.,Ltd.

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