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

https://marketpublishers.com/r/G832A89312D1EN.html
Date: October 2026
Pages: 119
Price: US$ 3,660.00 (Single User License)
ID: G832A89312D1EN

Abstracts

The global Crossed Roller Bearings for Robot Joint market size is predicted to grow from US$ 486 million in 2025 to US$ 920 million in 2032; it is expected to grow at a CAGR of 10.0% from 2026 to 2032.

Crossed Roller Bearings for Robot Joints refer to high-precision rolling bearings specifically designed for rotational support, positioning, and load transmission in robot joints. The bearings use cylindrical rollers arranged alternately at approximately 90 degrees between the inner and outer rings, enabling a single bearing to simultaneously withstand radial loads, axial loads, and overturning moments while maintaining high rigidity, high rotational accuracy, compact dimensions, and low friction. They are mainly installed in the waist, shoulder, elbow, wrist, hip, and other rotary joints of industrial robots, collaborative robots, humanoid robots, service robots, and medical robots, and may also be used as output-support bearings in RV reducers, harmonic drive systems, and other robot joint transmission mechanisms. Products covered in this market include standard, thin-section, ultra-thin-section, split-ring, integrated-ring, mounting-hole, and customized crossed roller bearings supplied as standalone bearing products or integrated bearing units. The market excludes ordinary cylindrical roller bearings, needle roller bearings, angular contact ball bearings, four-point contact bearings, flexible bearings, general-purpose slewing bearings, complete robot reducers, joint modules, and other bearing products without confirmed application in robot joints.

United States market for Crossed Roller Bearings for Robot Joint 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 Crossed Roller Bearings for Robot Joint is estimated to increase from

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

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

Global key Crossed Roller Bearings for Robot Joint players cover THK CO., LTD., NIPPON THOMPSON CO., LTD., NSK Ltd., NTN Corporation, HIWIN Technologies Corp., 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 “Crossed Roller Bearings for Robot Joint Industry Forecast” looks at past sales and reviews total world Crossed Roller Bearings for Robot Joint sales in 2025, providing a comprehensive analysis by region and market sector of projected Crossed Roller Bearings for Robot Joint sales for 2026 through 2032. With Crossed Roller Bearings for Robot Joint sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Crossed Roller Bearings for Robot Joint industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Crossed Roller Bearings for Robot Joint and breaks down the forecast by Bearing Structural Design, 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 Crossed Roller Bearings for Robot Joint.

This report presents a comprehensive overview, market shares, and growth

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opportunities of Crossed Roller Bearings for Robot Joint market by product type, application, key players and key regions and countries.

Market Segmentation

Segmentation by Bearing Structural Design:

Split Outer Ring Type

Split Inner Ring Type

Integrated Inner and Outer Ring Type

Segmentation by Bearing Outside Diameter:

<50 mm

50–100 mm

>100 mm

Segmentation by Robot Joint Position:

Base and Waist Joint Bearings

Shoulder Joint Bearings

Elbow Joint Bearings

Wrist Joint Bearings

Other Joint Bearings

Segmentation by Application:

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Industrial Robots

Collaborative Robots

Humanoid Robots

Service Robots

Medical Robots

Other Robots

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

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

THK CO., LTD.

NIPPON THOMPSON CO., LTD.

NSK Ltd.

NTN Corporation

HIWIN Technologies Corp.

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Schaeffler AG

C&U Company Limited

Luoyang Hongyuan Bearing Technology Co., Ltd.

Luoyang Bearing Research Institute Co., Ltd.

Zhejiang XCC Group Co.,Ltd.

ILJIN Bearing Art

CPM SpA

Luoyang Huigong Bearing Technology Co., Ltd.

CCTY Bearing Company

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