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Global Robot Joint Encoder Rings Market Growth 2026-2032

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Abstracts

The global Robot Joint Encoder Rings market size is predicted to grow from US$ 161 million in 2025 to US$ 542 million in 2032; it is expected to grow at a CAGR of 18.9% from 2026 to 2032.

In 2025, global Robot Joint Encoder Rings production reached approximately 5.5 million units, with an average global market price of around USD 30 per unit.

The gross profit margin of major companies in the industry was approximately 30%–50%.

In 2025, global production capacity of Robot Joint Encoder Rings was approximately 7 million units.

Robot Joint Encoder Rings are annular position-sensing components integrated into robotic joints to provide angular position, rotation, and motion feedback for closed-loop control. Products may use magnetic, optical, inductive, or other non-contact sensing principles and are designed for compact installation around joint shafts or bearings. They offer high resolution, repeatability, low profile, and integration flexibility and are mainly used in humanoid robots, collaborative robots, robotic arms, dexterous joints, and precision motion systems.

The industrial chain of Robot Joint Encoder Rings includes upstream magnetic or optical materials, sensing chips, code rings, substrates, electronic components, precision bearings, and signal-processing technologies; midstream covers sensing design, pattern fabrication, component assembly, calibration, signal processing integration, accuracy testing, and reliability validation; downstream applications mainly

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include humanoid robots, collaborative robots, industrial robotic arms, dexterous joints, service robots, and other precision robotic motion-control systems.

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

Global key Robot Joint Encoder Rings players cover RLS d.o.o., BOGEN Magnetics GmbH, NTN Corporation, Renishaw plc, Dr. Johannes Heidenhain GmbH, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Robot Joint Encoder Rings 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

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view of the current state and future trajectory in the global Robot Joint Encoder Rings.

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

Market Segmentation

Segmentation by Type:

Optical Encoder Rings

Magnetic Encoder Rings

Inductive Encoder Rings

Segmentation by Ring Construction:

One-piece Encoder Rings

Segmented Encoder Rings

Bearing-integrated Encoder Rings

Segmentation by Ring Outer Diameter:

Small-diameter??50 mm?

Medium-diameter??50–100 mm?

Large-diameter??100 mm?

Segmentation by Application:

Joint Position Measurement

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Joint Speed and Direction Measurement

Closed-loop Motion and Torque Control

Other

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

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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.

RLS d.o.o.

BOGEN Magnetics GmbH

NTN Corporation

Renishaw plc

Dr. Johannes Heidenhain GmbH

Netzer Precision Position Sensors A.C.S. Ltd.

Magnetic Sensor Systems, Inc.

Phoenix America LLC

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K?bler Group

Baumer Holding AG

SIKO GmbH

OTV Precision Sensing Co., Ltd.

Shenzhen ZeroErr Control Co., Ltd.

Hangzhou SDM Magnetics Co., Ltd.

Xiamen Everbeen Magnet Electron Co., Ltd.

Shenzhen BriterEncoder Technology Co., Ltd.

Changchun Yuheng Optics Co., Ltd.

Shanghai Hengxiang Optical Electronic Co., Ltd.

Ningbo Jinji Strong Magnetic Material Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Robot Joint Encoder Rings market?

What factors are driving Robot Joint Encoder Rings market growth, globally and by region?

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

How do Robot Joint Encoder Rings market opportunities vary by end market size?

How does Robot Joint Encoder Rings break out by Type, by Application?

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