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Global Robotic Joint Torque Sensors Market Growth 2025-2031

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Abstracts

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The global Robotic Joint Torque Sensors market size is predicted to grow from US$ 66.5 million in 2025 to US$ 113 million in 2031; it is expected to grow at a CAGR of 9.3% from 2025 to 2031.

A Robotic Joint Torque Sensor is a specialized sensor designed to measure the torque (rotational force) applied at the joints of a robot. These sensors provide real-time feedback on the forces acting within the robot's joints, enabling precise control, stability, and safe interaction with the environment or humans. They are critical components in robotics, particularly in humanoid robots, industrial robots, and collaborative robots (cobots).

United States market for Robotic Joint Torque Sensors is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Robotic Joint Torque Sensors is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Robotic Joint Torque Sensors is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Robotic Joint Torque Sensors players cover ATI Industrial Automation, AL.Robot., TE Connectivity, Schunk, Advanced Mechanical Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

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LP Information, Inc. (LPI) ' newest research report, the “Robotic Joint Torque Sensors Industry Forecast” looks at past sales and reviews total world Robotic Joint Torque Sensors sales in 2024, providing a comprehensive analysis by region and market sector of projected Robotic Joint Torque Sensors sales for 2025 through 2031. With Robotic Joint Torque Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Robotic Joint Torque Sensors industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Robotic Joint Torque Sensors 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 Robotic Joint Torque Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Robotic Joint Torque Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Strain Gauge Type

MENS Type

Others

Segmentation by Application:

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- Industrial Robots
- Medical Robots
- Humanoid Robots
- 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

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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.

ATI Industrial Automation

AL.Robot.

TE Connectivity

Schunk

Advanced Mechanical Technology

Kistler

Sensodrive

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Bota Systems

Aidin Robotics

ULTRAFORCE

Sunrise Instruments (SRI)

Kunwei Beijing Technology

Shenzhen Xinjingcheng Sensing Technolog

Blue Point Touch (Beijing) Technology

Nanjing Bio-inspired Intelligent Technology

Changzhou Right Measurement and control system

Forsentek

Zhonghang Electronic Measuring Instruments

Teamdrive

Key Questions Addressed in this Report

What is the 10-year outlook for the global Robotic Joint Torque Sensors market?

What factors are driving Robotic Joint Torque Sensors market growth, globally and by region?

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

How do Robotic Joint Torque Sensors market opportunities vary by end market size?

How does Robotic Joint Torque Sensors break out by Type, by Application?

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