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Global Torque Sensor for Humanoid Robot Market Growth 2025-2031

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Abstracts

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The global Mechanical Quantity Sensor market size is predicted to grow from US$ 3081 million in 2025 to US$ 4223 million in 2031; it is expected to grow at a CAGR of 5.4% from 2025 to 2031.

A mechanical quantity sensor is a sensor that can sense mechanical quantities and convert them into usable output signals. It uses materials or structures that are sensitive to mechanical quantities to form sensor sensitive elements, and converts mechanical quantity parameters such as force, torque, pressure, tension, stress, strain, acceleration, angular velocity, vibration, angular vibration, and rotation speed into electrical quantities. It belongs to a physical quantity sensor.

Mechanical quantity sensors are widely utilized across various fields, including industrial control, consumer electronics, automotive, transportation, robot, aerospace etc. These sensors measure parameters such as pressure, force, displacement, and vibration to monitor equipment performance, enhance safety, and ensure precision in mechanical systems.

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

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This Insight Report provides a comprehensive analysis of the global Mechanical Quantity Sensor 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 Mechanical Quantity Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Mechanical Quantity Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Mechanical Quantity Sensor 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 Mechanical Quantity Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Mechanical Quantity Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Strain Gauge Type

Piezoresistive Type

Piezoelectric Type

Capacitive Type

Others

Segmentation by Application:

Industrial Control

Automobile

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- Consumer Electronics
- Transportation
- Medical
- Robot
- Equipment Manufacturing
- New Energy
- Semiconductor
- Aerospace
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea

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- 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.

- Sensata Technologies
- Kistler

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WIKA

TE Connectivity

Amphenol

MinebeaMitsumi

Nissha

Honeywell

Vishay Precision Group (VPG)

Novanta

Panasonic

HBK (Spectris)

Flintec

Futek

Tekscan

Keli Sensing Technology (Ningbo)

ZEMIC

Memsensing Microsystems

Key Questions Addressed in this Report

What is the 10-year outlook for the global Mechanical Quantity Sensor market?

What factors are driving Mechanical Quantity Sensor market growth, globally and by region?

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

How do Mechanical Quantity Sensor market opportunities vary by end market size?

How does Mechanical Quantity Sensor break out by Type, by Application?

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