

Global Torque Sensor for Industrial Robot Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Torque Sensor for Industrial Robot market size was valued at US\$ 892 million in 2025 and is forecast to a readjusted size of US\$ 1315 million by 2032 with a CAGR of 5.8% during review period.

Industrial robot torque sensors are devices that measure and detect the torque (rotational force) applied by the robot's motor. The core reason why industrial robots need torque sensors is to accurately control movement, ensure safety, and improve work quality. By measuring the torque (rotational force) of the joints or end effectors in real time, the robot can sense external contact forces, adjust its motion strategy, and avoid mechanical damage caused by overload. For example, when collaborative robots work with humans, torque sensors can detect abnormal external forces (such as collisions) in real time. Once a safety threshold (such as 10 N·m) is detected, the robot will stop immediately to prevent injuries.

In recent years, with the explosive growth of industrial automation and intelligent manufacturing demand, the industrial robot market has continued to expand, and torque sensors, as its core sensing components, are enjoying the dual dividends of technology iteration and large-scale application. From the perspective of the global competition landscape, this market presents the distinctive characteristics of 'international giants dominate the high-end, and domestic companies accelerate substitution'.

Globally, international manufacturers represented by Fanuc, Sensodrive, and TE Connectivity occupy a dominant position in the high-end market, but the shortcoming is that the price remains high. For Chinese local companies, domestic manufacturers represented by Changzhou Kunwei, Sunrise Instruments (SRI), Beijing Link-touch, and

Shenzhen Ampron Technology are rapidly rising through the strategy of 'technology catch-up + differentiated competition', and have significant cost advantages. The cost-effectiveness of sensors will become the core consideration for procurement by small and medium-sized manufacturing companies.

In the next 3-5 years, the torque sensor market for industrial robots will show the core trends of technology integration, product modularization, and deepening domestic substitution. With the deep integration of AI algorithms and sensing technologies, machine learning will gradually be applied to dynamic torque compensation and noise filtering to achieve higher precision and adaptive control; modular design (such as plug-and-play EtherCAT interface sensors) will reduce integration complexity and promote the rapid deployment of flexible production lines; and the process of domestic substitution driven by policies will be accelerated.

This report is a detailed and comprehensive analysis for global Torque Sensor for Industrial Robot market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Torque Sensor for Industrial Robot market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Torque Sensor for Industrial Robot market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Torque Sensor for Industrial Robot market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Torque Sensor for Industrial Robot market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Torque Sensor for Industrial Robot

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Torque Sensor for Industrial Robot market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Fanuc, Sensodrive, TE Con??nectivity, AIDIN ROBOTICS Inc, Robotiq, Bota Systems AG, ROBOTOUS Co., Ltd, Hypersen Technologies, OnRobot, ATI Industrial Automation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Torque Sensor for Industrial Robot market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Dynamic Torque Sensor

Static Torque Sensor

Market segment by Application

Collaborative Robots

Multi-joint Robots

SCARA Robots

Others

Major players covered

Fanuc

Sensodrive

TE Connectivity

AIDIN ROBOTICS Inc

Robotiq

Bota Systems AG

ROBOTOUS Co., Ltd

Hypersen Technologies

OnRobot

ATI Industrial Automation

Changzhou Kunwei

Sunrise Instruments (SRI)

Beijing Link-touch

Shenzhen Ampron Technology

AL.Robot

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Torque Sensor for Industrial Robot product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Torque Sensor for Industrial Robot, with price, sales quantity, revenue, and global market share of Torque Sensor for Industrial Robot from 2021 to 2026.

Chapter 3, the Torque Sensor for Industrial Robot competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Torque Sensor for Industrial Robot breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Torque Sensor for Industrial Robot market

forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Torque Sensor for Industrial Robot.

Chapter 14 and 15, to describe Torque Sensor for Industrial Robot sales channel, distributors, customers, research findings and conclusion.

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