

Global Tension Torque Sensor for Robot Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Tension Torque Sensor for Robot market size was valued at US\$ 65.9 million in 2024 and is forecast to a readjusted size of USD 280 million by 2031 with a CAGR of 13.6% during review period.

The robot tension/torque sensor is a sensor designed specifically for robots. It is used to measure the tension, pressure, torque or other forces exerted on the robot in real time during operation. It is an important part of the robot's perception and control system, which can improve the robot's perception of the external environment and its operating accuracy.

This report is a detailed and comprehensive analysis for global Tension Torque Sensor for 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 Tension Torque Sensor for Robot market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Tension Torque Sensor for Robot market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Tension Torque Sensor for Robot market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Tension Torque Sensor for Robot market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Tension Torque Sensor for 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 Tension Torque Sensor for 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 ATI, Shenzhen Ampron Technology, Lingyun Industrial Corporation, Keli Sensing Technology (Ningbo), DongHua Testing Technology Company, Guangzhou Haozhi Industrial, etc.

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

Market Segmentation

Tension Torque Sensor for Robot market is split by Type and by Application. For the period 2020-2031, 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

Four-axis

Five-axis

Six-axis

Others

Market segment by Application

Commercial Service Robots

Industrial Robots

Others

Major players covered

ATI

Shenzhen Ampron Technology

Lingyun Industrial Corporation

Keli Sensing Technology (Ningbo)

DongHua Testing Technology Company

Guangzhou Haozhi Industrial

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 Tension Torque Sensor for Robot product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Tension Torque Sensor for Robot, with price, sales quantity, revenue, and global market share of Tension Torque Sensor for Robot from 2020 to 2025.

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

Chapter 4, the Tension Torque Sensor for Robot breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Tension Torque Sensor for Robot market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Tension Torque Sensor for Robot.

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

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