

# Global Robot Force Torque Sensor Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G41A4C619513EN.html>

Date: June 2024

Pages: 147

Price: US\$ 3,480.00 (Single User License)

ID: G41A4C619513EN

## Abstracts

According to our (Global Info Research) latest study, the global Robot Force Torque Sensor market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

Sensors are simple, straightforward devices that, in essence, serve as various human senses within automated equipment. They are used in assembly and end-of-line testing operations to detect the presence, position, orientation or movement of an object. After the sensor initially measures a physical quantity, an external signal conditioner converts the data into an electrical energy measurement so it can be read by a person or instrument.

Force sensors monitor the rate of change, and the relative change, in force between two surfaces. The sensors may be bolted or magnet-mounted within the assembly or testing equipment, or onto the part tooling.

Torque sensors measure and record the rotational force on various rotating systems. Some torque sensors only measure static torque, while others are able to handle static and dynamic (in process) torque. The sensors are installed between test pieces and their mounting plates, and either sit on a pedestal or “float” in the driveline.

The Global Info Research report includes an overview of the development of the Robot Force Torque Sensor industry chain, the market status of Automotive (Welding Robots, Material Handling Robots), Electronics & Semiconductor (Welding Robots, Material Handling Robots), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of

## Robot Force Torque Sensor.

Regionally, the report analyzes the Robot Force Torque Sensor markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Robot Force Torque Sensor market, with robust domestic demand, supportive policies, and a strong manufacturing base.

### Key Features:

The report presents comprehensive understanding of the Robot Force Torque Sensor market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Robot Force Torque Sensor industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Welding Robots, Material Handling Robots).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Robot Force Torque Sensor market.

**Regional Analysis:** The report involves examining the Robot Force Torque Sensor market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Robot Force Torque Sensor market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Robot Force Torque Sensor:

**Company Analysis:** Report covers individual Robot Force Torque Sensor

manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Robot Force Torque Sensor. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive, Electronics & Semiconductor).

**Technology Analysis:** Report covers specific technologies relevant to Robot Force Torque Sensor. It assesses the current state, advancements, and potential future developments in Robot Force Torque Sensor areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Robot Force Torque Sensor market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Robot Force Torque Sensor market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Welding Robots

Material Handling Robots

Palletizing Robot

Painting Robot

Assembly Robot

Others

## Market segment by Application

Automotive

Electronics & Semiconductor

Pharmaceuticals

Food & Packaging

Others

## Major players covered

ABB

Crane Electronics

FUTEK Advanced Sensor Technology

Applied Measurements

Honeywell International

Kistler Holding

Norbar Torque Tools

Infineon Technologies

ATI Industrial Automation

OptoForce

Robotiq

OnRobot

HBM

Jiangsu Lanmec Electromechanical Technology Co., Ltd

ME-measurement systems GmbH

Bota Systems AG

Hypersen

Sunrise Instruments?SRI?

Minebea

ROBOTOUS

BCM SENSOR TECHNOLOGIES

PM Instrumentation

Zhimin

Nordbo Robotics

AIDIN ROBOTICS

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

Chapter 2, to profile the top manufacturers of Robot Force Torque Sensor, with price, sales, revenue and global market share of Robot Force Torque Sensor from 2019 to 2024.

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

Chapter 4, the Robot Force Torque Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Robot Force Torque Sensor market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Robot Force Torque Sensor.

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

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Robot Force Torque Sensor
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
  - 1.3.1 Overview: Global Robot Force Torque Sensor Consumption Value by Type: 2019 Versus 2023 Versus 2030
  - 1.3.2 Welding Robots
  - 1.3.3 Material Handling Robots
  - 1.3.4 Palletizing Robot
  - 1.3.5 Painting Robot
  - 1.3.6 Assembly Robot
  - 1.3.7 Others
- 1.4 Market Analysis by Application
  - 1.4.1 Overview: Global Robot Force Torque Sensor Consumption Value by Application: 2019 Versus 2023 Versus 2030
  - 1.4.2 Automotive
  - 1.4.3 Electronics & Semiconductor
  - 1.4.4 Pharmaceuticals
  - 1.4.5 Food & Packaging
  - 1.4.6 Others
- 1.5 Global Robot Force Torque Sensor Market Size & Forecast
  - 1.5.1 Global Robot Force Torque Sensor Consumption Value (2019 & 2023 & 2030)
  - 1.5.2 Global Robot Force Torque Sensor Sales Quantity (2019-2030)
  - 1.5.3 Global Robot Force Torque Sensor Average Price (2019-2030)

### 2 MANUFACTURERS PROFILES

- 2.1 ABB
  - 2.1.1 ABB Details
  - 2.1.2 ABB Major Business
  - 2.1.3 ABB Robot Force Torque Sensor Product and Services
  - 2.1.4 ABB Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.1.5 ABB Recent Developments/Updates
- 2.2 Crane Electronics
  - 2.2.1 Crane Electronics Details

- 2.2.2 Crane Electronics Major Business
- 2.2.3 Crane Electronics Robot Force Torque Sensor Product and Services
- 2.2.4 Crane Electronics Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.2.5 Crane Electronics Recent Developments/Updates
- 2.3 FUTEK Advanced Sensor Technology
  - 2.3.1 FUTEK Advanced Sensor Technology Details
  - 2.3.2 FUTEK Advanced Sensor Technology Major Business
  - 2.3.3 FUTEK Advanced Sensor Technology Robot Force Torque Sensor Product and Services
  - 2.3.4 FUTEK Advanced Sensor Technology Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.3.5 FUTEK Advanced Sensor Technology Recent Developments/Updates
- 2.4 Applied Measurements
  - 2.4.1 Applied Measurements Details
  - 2.4.2 Applied Measurements Major Business
  - 2.4.3 Applied Measurements Robot Force Torque Sensor Product and Services
  - 2.4.4 Applied Measurements Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.4.5 Applied Measurements Recent Developments/Updates
- 2.5 Honeywell International
  - 2.5.1 Honeywell International Details
  - 2.5.2 Honeywell International Major Business
  - 2.5.3 Honeywell International Robot Force Torque Sensor Product and Services
  - 2.5.4 Honeywell International Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.5.5 Honeywell International Recent Developments/Updates
- 2.6 Kistler Holding
  - 2.6.1 Kistler Holding Details
  - 2.6.2 Kistler Holding Major Business
  - 2.6.3 Kistler Holding Robot Force Torque Sensor Product and Services
  - 2.6.4 Kistler Holding Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.6.5 Kistler Holding Recent Developments/Updates
- 2.7 Norbar Torque Tools
  - 2.7.1 Norbar Torque Tools Details
  - 2.7.2 Norbar Torque Tools Major Business
  - 2.7.3 Norbar Torque Tools Robot Force Torque Sensor Product and Services
  - 2.7.4 Norbar Torque Tools Robot Force Torque Sensor Sales Quantity, Average Price,



## Revenue, Gross Margin and Market Share (2019-2024)

### 2.7.5 Norbar Torque Tools Recent Developments/Updates

## 2.8 Infineon Technologies

### 2.8.1 Infineon Technologies Details

### 2.8.2 Infineon Technologies Major Business

### 2.8.3 Infineon Technologies Robot Force Torque Sensor Product and Services

### 2.8.4 Infineon Technologies Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.8.5 Infineon Technologies Recent Developments/Updates

## 2.9 ATI Industrial Automation

### 2.9.1 ATI Industrial Automation Details

### 2.9.2 ATI Industrial Automation Major Business

### 2.9.3 ATI Industrial Automation Robot Force Torque Sensor Product and Services

### 2.9.4 ATI Industrial Automation Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.9.5 ATI Industrial Automation Recent Developments/Updates

## 2.10 OptoForce

### 2.10.1 OptoForce Details

### 2.10.2 OptoForce Major Business

### 2.10.3 OptoForce Robot Force Torque Sensor Product and Services

### 2.10.4 OptoForce Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.10.5 OptoForce Recent Developments/Updates

## 2.11 Robotiq

### 2.11.1 Robotiq Details

### 2.11.2 Robotiq Major Business

### 2.11.3 Robotiq Robot Force Torque Sensor Product and Services

### 2.11.4 Robotiq Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.11.5 Robotiq Recent Developments/Updates

## 2.12 OnRobot

### 2.12.1 OnRobot Details

### 2.12.2 OnRobot Major Business

### 2.12.3 OnRobot Robot Force Torque Sensor Product and Services

### 2.12.4 OnRobot Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.12.5 OnRobot Recent Developments/Updates

## 2.13 HBM

### 2.13.1 HBM Details

- 2.13.2 HBM Major Business
- 2.13.3 HBM Robot Force Torque Sensor Product and Services
- 2.13.4 HBM Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.13.5 HBM Recent Developments/Updates
- 2.14 Jiangsu Lanmec Electromechanical Technology Co., Ltd
  - 2.14.1 Jiangsu Lanmec Electromechanical Technology Co., Ltd Details
  - 2.14.2 Jiangsu Lanmec Electromechanical Technology Co., Ltd Major Business
  - 2.14.3 Jiangsu Lanmec Electromechanical Technology Co., Ltd Robot Force Torque Sensor Product and Services
  - 2.14.4 Jiangsu Lanmec Electromechanical Technology Co., Ltd Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.14.5 Jiangsu Lanmec Electromechanical Technology Co., Ltd Recent Developments/Updates
- 2.15 ME-measurement systems GmbH
  - 2.15.1 ME-measurement systems GmbH Details
  - 2.15.2 ME-measurement systems GmbH Major Business
  - 2.15.3 ME-measurement systems GmbH Robot Force Torque Sensor Product and Services
  - 2.15.4 ME-measurement systems GmbH Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.15.5 ME-measurement systems GmbH Recent Developments/Updates
- 2.16 Bota Systems AG
  - 2.16.1 Bota Systems AG Details
  - 2.16.2 Bota Systems AG Major Business
  - 2.16.3 Bota Systems AG Robot Force Torque Sensor Product and Services
  - 2.16.4 Bota Systems AG Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.16.5 Bota Systems AG Recent Developments/Updates
- 2.17 Hypersen
  - 2.17.1 Hypersen Details
  - 2.17.2 Hypersen Major Business
  - 2.17.3 Hypersen Robot Force Torque Sensor Product and Services
  - 2.17.4 Hypersen Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.17.5 Hypersen Recent Developments/Updates
- 2.18 Sunrise Instruments?SRI?
  - 2.18.1 Sunrise Instruments?SRI? Details

- 2.18.2 Sunrise Instruments?SRI? Major Business
- 2.18.3 Sunrise Instruments?SRI? Robot Force Torque Sensor Product and Services
- 2.18.4 Sunrise Instruments?SRI? Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.18.5 Sunrise Instruments?SRI? Recent Developments/Updates
- 2.19 Minebea
  - 2.19.1 Minebea Details
  - 2.19.2 Minebea Major Business
  - 2.19.3 Minebea Robot Force Torque Sensor Product and Services
  - 2.19.4 Minebea Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.19.5 Minebea Recent Developments/Updates
- 2.20 ROBOTOUS
  - 2.20.1 ROBOTOUS Details
  - 2.20.2 ROBOTOUS Major Business
  - 2.20.3 ROBOTOUS Robot Force Torque Sensor Product and Services
  - 2.20.4 ROBOTOUS Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.20.5 ROBOTOUS Recent Developments/Updates
- 2.21 BCM SENSOR TECHNOLOGIES
  - 2.21.1 BCM SENSOR TECHNOLOGIES Details
  - 2.21.2 BCM SENSOR TECHNOLOGIES Major Business
  - 2.21.3 BCM SENSOR TECHNOLOGIES Robot Force Torque Sensor Product and Services
  - 2.21.4 BCM SENSOR TECHNOLOGIES Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.21.5 BCM SENSOR TECHNOLOGIES Recent Developments/Updates
- 2.22 PM Instrumentation
  - 2.22.1 PM Instrumentation Details
  - 2.22.2 PM Instrumentation Major Business
  - 2.22.3 PM Instrumentation Robot Force Torque Sensor Product and Services
  - 2.22.4 PM Instrumentation Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.22.5 PM Instrumentation Recent Developments/Updates
- 2.23 Zhimin
  - 2.23.1 Zhimin Details
  - 2.23.2 Zhimin Major Business
  - 2.23.3 Zhimin Robot Force Torque Sensor Product and Services
  - 2.23.4 Zhimin Robot Force Torque Sensor Sales Quantity, Average Price, Revenue,

## Gross Margin and Market Share (2019-2024)

### 2.23.5 Zhimin Recent Developments/Updates

## 2.24 Nordbo Robotics

### 2.24.1 Nordbo Robotics Details

### 2.24.2 Nordbo Robotics Major Business

### 2.24.3 Nordbo Robotics Robot Force Torque Sensor Product and Services

### 2.24.4 Nordbo Robotics Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.24.5 Nordbo Robotics Recent Developments/Updates

## 2.25 AIDIN ROBOTICS

### 2.25.1 AIDIN ROBOTICS Details

### 2.25.2 AIDIN ROBOTICS Major Business

### 2.25.3 AIDIN ROBOTICS Robot Force Torque Sensor Product and Services

### 2.25.4 AIDIN ROBOTICS Robot Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.25.5 AIDIN ROBOTICS Recent Developments/Updates

## **3 COMPETITIVE ENVIRONMENT: ROBOT FORCE TORQUE SENSOR BY MANUFACTURER**

### 3.1 Global Robot Force Torque Sensor Sales Quantity by Manufacturer (2019-2024)

### 3.2 Global Robot Force Torque Sensor Revenue by Manufacturer (2019-2024)

### 3.3 Global Robot Force Torque Sensor Average Price by Manufacturer (2019-2024)

### 3.4 Market Share Analysis (2023)

#### 3.4.1 Producer Shipments of Robot Force Torque Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2023

#### 3.4.2 Top 3 Robot Force Torque Sensor Manufacturer Market Share in 2023

#### 3.4.2 Top 6 Robot Force Torque Sensor Manufacturer Market Share in 2023

### 3.5 Robot Force Torque Sensor Market: Overall Company Footprint Analysis

#### 3.5.1 Robot Force Torque Sensor Market: Region Footprint

#### 3.5.2 Robot Force Torque Sensor Market: Company Product Type Footprint

#### 3.5.3 Robot Force Torque Sensor Market: Company Product Application Footprint

### 3.6 New Market Entrants and Barriers to Market Entry

### 3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

### 4.1 Global Robot Force Torque Sensor Market Size by Region

#### 4.1.1 Global Robot Force Torque Sensor Sales Quantity by Region (2019-2030)

- 4.1.2 Global Robot Force Torque Sensor Consumption Value by Region (2019-2030)
- 4.1.3 Global Robot Force Torque Sensor Average Price by Region (2019-2030)
- 4.2 North America Robot Force Torque Sensor Consumption Value (2019-2030)
- 4.3 Europe Robot Force Torque Sensor Consumption Value (2019-2030)
- 4.4 Asia-Pacific Robot Force Torque Sensor Consumption Value (2019-2030)
- 4.5 South America Robot Force Torque Sensor Consumption Value (2019-2030)
- 4.6 Middle East and Africa Robot Force Torque Sensor Consumption Value (2019-2030)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Robot Force Torque Sensor Sales Quantity by Type (2019-2030)
- 5.2 Global Robot Force Torque Sensor Consumption Value by Type (2019-2030)
- 5.3 Global Robot Force Torque Sensor Average Price by Type (2019-2030)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Robot Force Torque Sensor Sales Quantity by Application (2019-2030)
- 6.2 Global Robot Force Torque Sensor Consumption Value by Application (2019-2030)
- 6.3 Global Robot Force Torque Sensor Average Price by Application (2019-2030)

## **7 NORTH AMERICA**

- 7.1 North America Robot Force Torque Sensor Sales Quantity by Type (2019-2030)
- 7.2 North America Robot Force Torque Sensor Sales Quantity by Application (2019-2030)
- 7.3 North America Robot Force Torque Sensor Market Size by Country
  - 7.3.1 North America Robot Force Torque Sensor Sales Quantity by Country (2019-2030)
  - 7.3.2 North America Robot Force Torque Sensor Consumption Value by Country (2019-2030)
  - 7.3.3 United States Market Size and Forecast (2019-2030)
  - 7.3.4 Canada Market Size and Forecast (2019-2030)
  - 7.3.5 Mexico Market Size and Forecast (2019-2030)

## **8 EUROPE**

- 8.1 Europe Robot Force Torque Sensor Sales Quantity by Type (2019-2030)
- 8.2 Europe Robot Force Torque Sensor Sales Quantity by Application (2019-2030)

### 8.3 Europe Robot Force Torque Sensor Market Size by Country

8.3.1 Europe Robot Force Torque Sensor Sales Quantity by Country (2019-2030)

8.3.2 Europe Robot Force Torque Sensor Consumption Value by Country (2019-2030)

8.3.3 Germany Market Size and Forecast (2019-2030)

8.3.4 France Market Size and Forecast (2019-2030)

8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

## 9 ASIA-PACIFIC

9.1 Asia-Pacific Robot Force Torque Sensor Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific Robot Force Torque Sensor Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific Robot Force Torque Sensor Market Size by Region

9.3.1 Asia-Pacific Robot Force Torque Sensor Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific Robot Force Torque Sensor Consumption Value by Region (2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

## 10 SOUTH AMERICA

10.1 South America Robot Force Torque Sensor Sales Quantity by Type (2019-2030)

10.2 South America Robot Force Torque Sensor Sales Quantity by Application (2019-2030)

10.3 South America Robot Force Torque Sensor Market Size by Country

10.3.1 South America Robot Force Torque Sensor Sales Quantity by Country (2019-2030)

10.3.2 South America Robot Force Torque Sensor Consumption Value by Country (2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

## 11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Robot Force Torque Sensor Sales Quantity by Type (2019-2030)

11.2 Middle East & Africa Robot Force Torque Sensor Sales Quantity by Application (2019-2030)

11.3 Middle East & Africa Robot Force Torque Sensor Market Size by Country

11.3.1 Middle East & Africa Robot Force Torque Sensor Sales Quantity by Country (2019-2030)

11.3.2 Middle East & Africa Robot Force Torque Sensor Consumption Value by Country (2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

11.3.4 Egypt Market Size and Forecast (2019-2030)

11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

11.3.6 South Africa Market Size and Forecast (2019-2030)

## **12 MARKET DYNAMICS**

12.1 Robot Force Torque Sensor Market Drivers

12.2 Robot Force Torque Sensor Market Restraints

12.3 Robot Force Torque Sensor Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of Robot Force Torque Sensor and Key Manufacturers

13.2 Manufacturing Costs Percentage of Robot Force Torque Sensor

13.3 Robot Force Torque Sensor Production Process

13.4 Robot Force Torque Sensor Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Robot Force Torque Sensor Typical Distributors

14.3 Robot Force Torque Sensor Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer



## List Of Tables

### LIST OF TABLES

- Table 1. Global Robot Force Torque Sensor Consumption Value by Type, (USD Million), 2019 & 2023 & 2030
- Table 2. Global Robot Force Torque Sensor Consumption Value by Application, (USD Million), 2019 & 2023 & 2030
- Table 3. ABB Basic Information, Manufacturing Base and Competitors
- Table 4. ABB Major Business
- Table 5. ABB Robot Force Torque Sensor Product and Services
- Table 6. ABB Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 7. ABB Recent Developments/Updates
- Table 8. Crane Electronics Basic Information, Manufacturing Base and Competitors
- Table 9. Crane Electronics Major Business
- Table 10. Crane Electronics Robot Force Torque Sensor Product and Services
- Table 11. Crane Electronics Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 12. Crane Electronics Recent Developments/Updates
- Table 13. FUTEK Advanced Sensor Technology Basic Information, Manufacturing Base and Competitors
- Table 14. FUTEK Advanced Sensor Technology Major Business
- Table 15. FUTEK Advanced Sensor Technology Robot Force Torque Sensor Product and Services
- Table 16. FUTEK Advanced Sensor Technology Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 17. FUTEK Advanced Sensor Technology Recent Developments/Updates
- Table 18. Applied Measurements Basic Information, Manufacturing Base and Competitors
- Table 19. Applied Measurements Major Business
- Table 20. Applied Measurements Robot Force Torque Sensor Product and Services
- Table 21. Applied Measurements Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 22. Applied Measurements Recent Developments/Updates
- Table 23. Honeywell International Basic Information, Manufacturing Base and

## Competitors

Table 24. Honeywell International Major Business

Table 25. Honeywell International Robot Force Torque Sensor Product and Services

Table 26. Honeywell International Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. Honeywell International Recent Developments/Updates

Table 28. Kistler Holding Basic Information, Manufacturing Base and Competitors

Table 29. Kistler Holding Major Business

Table 30. Kistler Holding Robot Force Torque Sensor Product and Services

Table 31. Kistler Holding Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. Kistler Holding Recent Developments/Updates

Table 33. Norbar Torque Tools Basic Information, Manufacturing Base and Competitors

Table 34. Norbar Torque Tools Major Business

Table 35. Norbar Torque Tools Robot Force Torque Sensor Product and Services

Table 36. Norbar Torque Tools Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. Norbar Torque Tools Recent Developments/Updates

Table 38. Infineon Technologies Basic Information, Manufacturing Base and Competitors

Table 39. Infineon Technologies Major Business

Table 40. Infineon Technologies Robot Force Torque Sensor Product and Services

Table 41. Infineon Technologies Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. Infineon Technologies Recent Developments/Updates

Table 43. ATI Industrial Automation Basic Information, Manufacturing Base and Competitors

Table 44. ATI Industrial Automation Major Business

Table 45. ATI Industrial Automation Robot Force Torque Sensor Product and Services

Table 46. ATI Industrial Automation Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. ATI Industrial Automation Recent Developments/Updates

Table 48. OptoForce Basic Information, Manufacturing Base and Competitors

Table 49. OptoForce Major Business

Table 50. OptoForce Robot Force Torque Sensor Product and Services

- Table 51. OptoForce Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 52. OptoForce Recent Developments/Updates
- Table 53. Robotiq Basic Information, Manufacturing Base and Competitors
- Table 54. Robotiq Major Business
- Table 55. Robotiq Robot Force Torque Sensor Product and Services
- Table 56. Robotiq Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 57. Robotiq Recent Developments/Updates
- Table 58. OnRobot Basic Information, Manufacturing Base and Competitors
- Table 59. OnRobot Major Business
- Table 60. OnRobot Robot Force Torque Sensor Product and Services
- Table 61. OnRobot Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 62. OnRobot Recent Developments/Updates
- Table 63. HBM Basic Information, Manufacturing Base and Competitors
- Table 64. HBM Major Business
- Table 65. HBM Robot Force Torque Sensor Product and Services
- Table 66. HBM Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 67. HBM Recent Developments/Updates
- Table 68. Jiangsu Lanmec Electromechanical Technology Co., Ltd Basic Information, Manufacturing Base and Competitors
- Table 69. Jiangsu Lanmec Electromechanical Technology Co., Ltd Major Business
- Table 70. Jiangsu Lanmec Electromechanical Technology Co., Ltd Robot Force Torque Sensor Product and Services
- Table 71. Jiangsu Lanmec Electromechanical Technology Co., Ltd Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 72. Jiangsu Lanmec Electromechanical Technology Co., Ltd Recent Developments/Updates
- Table 73. ME-measurement systems GmbH Basic Information, Manufacturing Base and Competitors
- Table 74. ME-measurement systems GmbH Major Business
- Table 75. ME-measurement systems GmbH Robot Force Torque Sensor Product and Services
- Table 76. ME-measurement systems GmbH Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

- Table 77. ME-measurement systems GmbH Recent Developments/Updates
- Table 78. Bota Systems AG Basic Information, Manufacturing Base and Competitors
- Table 79. Bota Systems AG Major Business
- Table 80. Bota Systems AG Robot Force Torque Sensor Product and Services
- Table 81. Bota Systems AG Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 82. Bota Systems AG Recent Developments/Updates
- Table 83. Hypersen Basic Information, Manufacturing Base and Competitors
- Table 84. Hypersen Major Business
- Table 85. Hypersen Robot Force Torque Sensor Product and Services
- Table 86. Hypersen Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 87. Hypersen Recent Developments/Updates
- Table 88. Sunrise Instruments?SRI? Basic Information, Manufacturing Base and Competitors
- Table 89. Sunrise Instruments?SRI? Major Business
- Table 90. Sunrise Instruments?SRI? Robot Force Torque Sensor Product and Services
- Table 91. Sunrise Instruments?SRI? Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 92. Sunrise Instruments?SRI? Recent Developments/Updates
- Table 93. Minebea Basic Information, Manufacturing Base and Competitors
- Table 94. Minebea Major Business
- Table 95. Minebea Robot Force Torque Sensor Product and Services
- Table 96. Minebea Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 97. Minebea Recent Developments/Updates
- Table 98. ROBOTOUS Basic Information, Manufacturing Base and Competitors
- Table 99. ROBOTOUS Major Business
- Table 100. ROBOTOUS Robot Force Torque Sensor Product and Services
- Table 101. ROBOTOUS Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 102. ROBOTOUS Recent Developments/Updates
- Table 103. BCM SENSOR TECHNOLOGIES Basic Information, Manufacturing Base and Competitors
- Table 104. BCM SENSOR TECHNOLOGIES Major Business
- Table 105. BCM SENSOR TECHNOLOGIES Robot Force Torque Sensor Product and Services

Table 106. BCM SENSOR TECHNOLOGIES Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 107. BCM SENSOR TECHNOLOGIES Recent Developments/Updates

Table 108. PM Instrumentation Basic Information, Manufacturing Base and Competitors

Table 109. PM Instrumentation Major Business

Table 110. PM Instrumentation Robot Force Torque Sensor Product and Services

Table 111. PM Instrumentation Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 112. PM Instrumentation Recent Developments/Updates

Table 113. Zhimin Basic Information, Manufacturing Base and Competitors

Table 114. Zhimin Major Business

Table 115. Zhimin Robot Force Torque Sensor Product and Services

Table 116. Zhimin Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 117. Zhimin Recent Developments/Updates

Table 118. Nordbo Robotics Basic Information, Manufacturing Base and Competitors

Table 119. Nordbo Robotics Major Business

Table 120. Nordbo Robotics Robot Force Torque Sensor Product and Services

Table 121. Nordbo Robotics Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 122. Nordbo Robotics Recent Developments/Updates

Table 123. AIDIN ROBOTICS Basic Information, Manufacturing Base and Competitors

Table 124. AIDIN ROBOTICS Major Business

Table 125. AIDIN ROBOTICS Robot Force Torque Sensor Product and Services

Table 126. AIDIN ROBOTICS Robot Force Torque Sensor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 127. AIDIN ROBOTICS Recent Developments/Updates

Table 128. Global Robot Force Torque Sensor Sales Quantity by Manufacturer (2019-2024) & (K Units)

Table 129. Global Robot Force Torque Sensor Revenue by Manufacturer (2019-2024) & (USD Million)

Table 130. Global Robot Force Torque Sensor Average Price by Manufacturer (2019-2024) & (USD/Unit)

Table 131. Market Position of Manufacturers in Robot Force Torque Sensor, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 132. Head Office and Robot Force Torque Sensor Production Site of Key Manufacturer

Table 133. Robot Force Torque Sensor Market: Company Product Type Footprint

Table 134. Robot Force Torque Sensor Market: Company Product Application Footprint

Table 135. Robot Force Torque Sensor New Market Entrants and Barriers to Market Entry

Table 136. Robot Force Torque Sensor Mergers, Acquisition, Agreements, and Collaborations

Table 137. Global Robot Force Torque Sensor Sales Quantity by Region (2019-2024) & (K Units)

Table 138. Global Robot Force Torque Sensor Sales Quantity by Region (2025-2030) & (K Units)

Table 139. Global Robot Force Torque Sensor Consumption Value by Region (2019-2024) & (USD Million)

Table 140. Global Robot Force Torque Sensor Consumption Value by Region (2025-2030) & (USD Million)

Table 141. Global Robot Force Torque Sensor Average Price by Region (2019-2024) & (USD/Unit)

Table 142. Global Robot Force Torque Sensor Average Price by Region (2025-2030) & (USD/Unit)

Table 143. Global Robot Force Torque Sensor Sales Quantity by Type (2019-2024) & (K Units)

Table 144. Global Robot Force Torque Sensor Sales Quantity by Type (2025-2030) & (K Units)

Table 145. Global Robot Force Torque Sensor Consumption Value by Type (2019-2024) & (USD Million)

Table 146. Global Robot Force Torque Sensor Consumption Value by Type (2025-2030) & (USD Million)

Table 147. Global Robot Force Torque Sensor Average Price by Type (2019-2024) & (USD/Unit)

Table 148. Global Robot Force Torque Sensor Average Price by Type (2025-2030) & (USD/Unit)

Table 149. Global Robot Force Torque Sensor Sales Quantity by Application (2019-2024) & (K Units)

Table 150. Global Robot Force Torque Sensor Sales Quantity by Application (2025-2030) & (K Units)

Table 151. Global Robot Force Torque Sensor Consumption Value by Application (2019-2024) & (USD Million)

Table 152. Global Robot Force Torque Sensor Consumption Value by Application

(2025-2030) & (USD Million)

Table 153. Global Robot Force Torque Sensor Average Price by Application

(2019-2024) & (USD/Unit)

Table 154. Global Robot Force Torque Sensor Average Price by Application

(2025-2030) & (USD/Unit)

Table 155. North America Robot Force Torque Sensor Sales Quantity by Type

(2019-2024) & (K Units)

Table 156. North America Robot Force Torque Sensor Sales Quantity by Type

(2025-2030) & (K Units)

Table 157. North America Robot Force Torque Sensor Sales Quantity by Application

(2019-2024) & (K Units)

Table 158. North America Robot Force Torque Sensor Sales Quantity by Application

(2025-2030) & (K Units)

Table 159. North America Robot Force Torque Sensor Sales Quantity by Country

(2019-2024) & (K Units)

Table 160. North America Robot Force Torque Sensor Sales Quantity by Country

(2025-2030) & (K Units)

Table 161. North America Robot Force Torque Sensor Consumption Value by Country

(2019-2024) & (USD Million)

Table 162. North America Robot Force Torque Sensor Consumption Value by Country

(2025-2030) & (USD Million)

Table 163. Europe Robot Force Torque Sensor Sales Quantity by Type (2019-2024) &

(K Units)

Table 164. Europe Robot Force Torque Sensor Sales Quantity by Type (2025-2030) &

(K Units)

Table 165. Europe Robot Force Torque Sensor Sales Quantity by Application

(2019-2024) & (K Units)

Table 166. Europe Robot Force Torque Sensor Sales Quantity by Application

(2025-2030) & (K Units)

Table 167. Europe Robot Force Torque Sensor Sales Quantity by Country (2019-2024)

& (K Units)

Table 168. Europe Robot Force Torque Sensor Sales Quantity by Country (2025-2030)

& (K Units)

Table 169. Europe Robot Force Torque Sensor Consumption Value by Country

(2019-2024) & (USD Million)

Table 170. Europe Robot Force Torque Sensor Consumption Value by Country

(2025-2030) & (USD Million)

Table 171. Asia-Pacific Robot Force Torque Sensor Sales Quantity by Type

(2019-2024) & (K Units)

- Table 172. Asia-Pacific Robot Force Torque Sensor Sales Quantity by Type (2025-2030) & (K Units)
- Table 173. Asia-Pacific Robot Force Torque Sensor Sales Quantity by Application (2019-2024) & (K Units)
- Table 174. Asia-Pacific Robot Force Torque Sensor Sales Quantity by Application (2025-2030) & (K Units)
- Table 175. Asia-Pacific Robot Force Torque Sensor Sales Quantity by Region (2019-2024) & (K Units)
- Table 176. Asia-Pacific Robot Force Torque Sensor Sales Quantity by Region (2025-2030) & (K Units)
- Table 177. Asia-Pacific Robot Force Torque Sensor Consumption Value by Region (2019-2024) & (USD Million)
- Table 178. Asia-Pacific Robot Force Torque Sensor Consumption Value by Region (2025-2030) & (USD Million)
- Table 179. South America Robot Force Torque Sensor Sales Quantity by Type (2019-2024) & (K Units)
- Table 180. South America Robot Force Torque Sensor Sales Quantity by Type (2025-2030) & (K Units)
- Table 181. South America Robot Force Torque Sensor Sales Quantity by Application (2019-2024) & (K Units)
- Table 182. South America Robot Force Torque Sensor Sales Quantity by Application (2025-2030) & (K Units)
- Table 183. South America Robot Force Torque Sensor Sales Quantity by Country (2019-2024) & (K Units)
- Table 184. South America Robot Force Torque Sensor Sales Quantity by Country (2025-2030) & (K Units)
- Table 185. South America Robot Force Torque Sensor Consumption Value by Country (2019-2024) & (USD Million)
- Table 186. South America Robot Force Torque Sensor Consumption Value by Country (2025-2030) & (USD Million)
- Table 187. Middle East & Africa Robot Force Torque Sensor Sales Quantity by Type (2019-2024) & (K Units)
- Table 188. Middle East & Africa Robot Force Torque Sensor Sales Quantity by Type (2025-2030) & (K Units)
- Table 189. Middle East & Africa Robot Force Torque Sensor Sales Quantity by Application (2019-2024) & (K Units)
- Table 190. Middle East & Africa Robot Force Torque Sensor Sales Quantity by Application (2025-2030) & (K Units)
- Table 191. Middle East & Africa Robot Force Torque Sensor Sales Quantity by Region



(2019-2024) & (K Units)

Table 192. Middle East & Africa Robot Force Torque Sensor Sales Quantity by Region

(2025-2030) & (K Units)

Table 193. Middle East & Africa Robot Force Torque Sensor Consumption Value by Region (2019-2024) & (USD Million)

Table 194. Middle East & Africa Robot Force Torque Sensor Consumption Value by Region (2025-2030) & (USD Million)

Table 195. Robot Force Torque Sensor Raw Material

Table 196. Key Manufacturers of Robot Force Torque Sensor Raw Materials

Table 197. Robot Force Torque Sensor Typical Distributors

Table 198. Robot Force Torque Sensor Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. Robot Force Torque Sensor Picture
- Figure 2. Global Robot Force Torque Sensor Consumption Value by Type, (USD Million), 2019 & 2023 & 2030
- Figure 3. Global Robot Force Torque Sensor Consumption Value Market Share by Type in 2023
- Figure 4. Welding Robots Examples
- Figure 5. Material Handling Robots Examples
- Figure 6. Palletizing Robot Examples
- Figure 7. Painting Robot Examples
- Figure 8. Assembly Robot Examples
- Figure 9. Others Examples
- Figure 10. Global Robot Force Torque Sensor Consumption Value by Application, (USD Million), 2019 & 2023 & 2030
- Figure 11. Global Robot Force Torque Sensor Consumption Value Market Share by Application in 2023
- Figure 12. Automotive Examples
- Figure 13. Electronics & Semiconductor Examples
- Figure 14. Pharmaceuticals Examples
- Figure 15. Food & Packaging Examples
- Figure 16. Others Examples
- Figure 17. Global Robot Force Torque Sensor Consumption Value, (USD Million): 2019 & 2023 & 2030
- Figure 18. Global Robot Force Torque Sensor Consumption Value and Forecast (2019-2030) & (USD Million)
- Figure 19. Global Robot Force Torque Sensor Sales Quantity (2019-2030) & (K Units)
- Figure 20. Global Robot Force Torque Sensor Average Price (2019-2030) & (USD/Unit)
- Figure 21. Global Robot Force Torque Sensor Sales Quantity Market Share by Manufacturer in 2023
- Figure 22. Global Robot Force Torque Sensor Consumption Value Market Share by Manufacturer in 2023
- Figure 23. Producer Shipments of Robot Force Torque Sensor by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023
- Figure 24. Top 3 Robot Force Torque Sensor Manufacturer (Consumption Value) Market Share in 2023
- Figure 25. Top 6 Robot Force Torque Sensor Manufacturer (Consumption Value)

## Market Share in 2023

Figure 26. Global Robot Force Torque Sensor Sales Quantity Market Share by Region (2019-2030)

Figure 27. Global Robot Force Torque Sensor Consumption Value Market Share by Region (2019-2030)

Figure 28. North America Robot Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 29. Europe Robot Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 30. Asia-Pacific Robot Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 31. South America Robot Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 32. Middle East & Africa Robot Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 33. Global Robot Force Torque Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 34. Global Robot Force Torque Sensor Consumption Value Market Share by Type (2019-2030)

Figure 35. Global Robot Force Torque Sensor Average Price by Type (2019-2030) & (USD/Unit)

Figure 36. Global Robot Force Torque Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 37. Global Robot Force Torque Sensor Consumption Value Market Share by Application (2019-2030)

Figure 38. Global Robot Force Torque Sensor Average Price by Application (2019-2030) & (USD/Unit)

Figure 39. North America Robot Force Torque Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 40. North America Robot Force Torque Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 41. North America Robot Force Torque Sensor Sales Quantity Market Share by Country (2019-2030)

Figure 42. North America Robot Force Torque Sensor Consumption Value Market Share by Country (2019-2030)

Figure 43. United States Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 44. Canada Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 45. Mexico Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 46. Europe Robot Force Torque Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 47. Europe Robot Force Torque Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 48. Europe Robot Force Torque Sensor Sales Quantity Market Share by Country (2019-2030)

Figure 49. Europe Robot Force Torque Sensor Consumption Value Market Share by Country (2019-2030)

Figure 50. Germany Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 51. France Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 52. United Kingdom Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 53. Russia Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 54. Italy Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 55. Asia-Pacific Robot Force Torque Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 56. Asia-Pacific Robot Force Torque Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 57. Asia-Pacific Robot Force Torque Sensor Sales Quantity Market Share by Region (2019-2030)

Figure 58. Asia-Pacific Robot Force Torque Sensor Consumption Value Market Share by Region (2019-2030)

Figure 59. China Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. Japan Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 61. Korea Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 62. India Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 63. Southeast Asia Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 64. Australia Robot Force Torque Sensor Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 65. South America Robot Force Torque Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 66. South America Robot Force Torque Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 67. South America Robot Force Torque Sensor Sales Quantity Market Share by Country (2019-2030)

Figure 68. South America Robot Force Torque Sensor Consumption Value Market Share by Country (2019-2030)

Figure 69. Brazil Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 70. Argentina Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 71. Middle East & Africa Robot Force Torque Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 72. Middle East & Africa Robot Force Torque Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 73. Middle East & Africa Robot Force Torque Sensor Sales Quantity Market Share by Region (2019-2030)

Figure 74. Middle East & Africa Robot Force Torque Sensor Consumption Value Market Share by Region (2019-2030)

Figure 75. Turkey Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 76. Egypt Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 77. Saudi Arabia Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 78. South Africa Robot Force Torque Sensor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 79. Robot Force Torque Sensor Market Drivers

Figure 80. Robot Force Torque Sensor Market Restraints

Figure 81. Robot Force Torque Sensor Market Trends

Figure 82. Porters Five Forces Analysis

Figure 83. Manufacturing Cost Structure Analysis of Robot Force Torque Sensor in 2023

Figure 84. Manufacturing Process Analysis of Robot Force Torque Sensor

Figure 85. Robot Force Torque Sensor Industrial Chain

Figure 86. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 87. Direct Channel Pros & Cons

Figure 88. Indirect Channel Pros & Cons

Figure 89. Methodology

Figure 90. Research Process and Data Source

## I would like to order

Product name: Global Robot Force Torque Sensor Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

Product link: <https://marketpublishers.com/r/G41A4C619513EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G41A4C619513EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

