

Global Automotive Steering Torque & Angle Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Steering Torque & Angle Sensor market size is expected to reach \$ 2243 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

The automotive steering torque and angle sensor is a sophisticated dual-purpose sensing array that serves as the primary input for Electronic Power Steering (EPS) and advanced driver-assistance systems (ADAS). These sensors are typically integrated into the steering column or rack to detect two critical metrics: the rotational position of the steering wheel (angle) and the physical force being applied by the driver (torque). By utilizing magnetic circuit designs or optical encoders, the sensor translates these physical movements into high-speed digital signals, allowing the vehicle's Electronic Control Unit (ECU) to calculate the exact amount of motor assistance required. In 2026, these sensors are increasingly designed with full redundancy (ASIL D compliance) to support 'Steer-by-Wire' technology and autonomous lane-keeping functions. Their role has expanded from simple power-assist components to vital safety nodes that enable rapid vehicle stabilization, haptic feedback, and precise maneuverability across all driving speeds and road conditions.

In 2025, global automotive steering torque and angle sensor production reached approximately 22.88 million units, with an average global market price of around US\$ 57.73 per unit. And global automotive steering torque and angle sensor production capacity reached approximately 30 k units. The average gross margin in this industry reached 28.48%.

The upstream supply chain for steering torque and angle sensors is built upon high-precision electronics and specialized magnetic components. Production requires a

steady supply of automotive-grade semiconductors, high-strength torsion bars, and rare-earth magnets that form the core of non-contact sensing architectures. Additionally, the development of these sensors relies on advanced thick-film print technology and high-performance polymers for sensor housings. Key upstream suppliers providing these essential materials and technical components include Infineon Technologies (supplying high-accuracy Hall effect and GMR sensor ICs), TDK Corporation (providing specialized magnets and electronic components), and ThyssenKrupp (supplying the precision-engineered torsion bars and specialized steel alloys required for the sensor's mechanical assembly). These partners are critical for maintaining the high resolution and thermal stability necessary for safety-critical automotive applications.

The downstream segment involves the integration of these sensors into complete steering systems or their direct procurement by major vehicle manufacturers for in-house assembly. At this stage, value is generated through the calibration of the sensor's software to match a specific vehicle's handling characteristics. Significant downstream customers and high-volume institutional buyers include Nexteer Automotive (integrating these sensors into their global EPS and Steer-by-Wire platforms), Volkswagen Group (deploying standardized sensor arrays across their modular electric and internal combustion vehicle architectures), and Ford Motor Company (utilizing high-precision torque sensors for their BlueCruise hands-free driving technology and commercial vehicle fleets). The downstream market in 2026 is currently being driven by the rapid adoption of electric vehicles, which prioritize the energy-efficient, purely electronic steering architectures that these sensors enable.

This report studies the global Automotive Steering Torque & Angle Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Steering Torque & Angle Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive Steering Torque & Angle Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Steering Torque & Angle Sensor total production and demand, 2021-2032, (K Units)

Global Automotive Steering Torque & Angle Sensor total production value, 2021-2032, (USD Million)

Global Automotive Steering Torque & Angle Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive Steering Torque & Angle Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Steering Torque & Angle Sensor domestic production, consumption, key domestic manufacturers and share

Global Automotive Steering Torque & Angle Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive Steering Torque & Angle Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Steering Torque & Angle Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Steering Torque & Angle Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Robert Bosch, Denso, Honeywell, Valeo, TE Connectivity, Bourns, Methode Electronics, Eltek Systems, FUTEK, KYOWA, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive Steering Torque & Angle Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Automotive Steering Torque & Angle Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Steering Torque & Angle Sensor Market, Segmentation by Type:

Steering Mount Sensor

Steering Base Mount Sensor

Steering Column Mount Sensor

Global Automotive Steering Torque & Angle Sensor Market, Segmentation by Sensing Technology:

Magnetostrictive (TMR/AMR/GMR)

Hall Effect (Non-contact)

Inductive

Optical

Other

Global Automotive Steering Torque & Angle Sensor Market, Segmentation by

Global Automotive Steering Torque & Angle Sensor Supply, Demand and Key Producers, 2026-2032

Functional Output & Signal:

Digital

Analog

Other

Global Automotive Steering Torque & Angle Sensor Market, Segmentation by Application:

Passenger Cars

Commercial Vehicles

Companies Profiled:

Robert Bosch

Denso

Honeywell

Valeo

TE Connectivity

Bourns

Methode Electronics

Eltek Systems

FUTEK

KYOWA

Delphi

Key Questions Answered:

1. How big is the global Automotive Steering Torque & Angle Sensor market?
2. What is the demand of the global Automotive Steering Torque & Angle Sensor market?
3. What is the year over year growth of the global Automotive Steering Torque & Angle Sensor market?
4. What is the production and production value of the global Automotive Steering Torque & Angle Sensor market?
5. Who are the key producers in the global Automotive Steering Torque & Angle Sensor market?
6. What are the growth factors driving the market demand?

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