

Europe Torque Sensor Market By Type (Rotary Torque Sensors and Reaction Torque Sensors) By Technology (Strain Gauge, Magnetoelastic, Surface Acoustic Wave and Others) By Application (Automotive, Test & Measurement, Aerospace & Defense, Industrial and Others) By Country, Industry Analysis and Forecast, 2019 - 2025

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Abstracts

The Europe Torque Sensor Market would witness market growth of 6.4% CAGR during the forecast period (2019-2025).

The development of contactless hall effect devices for electric power steering is a major trend throughout the industry. Such technologies are primarily used in the electric power-assisted steering applications, providing the ability to measure the change angle between two rotating shafts and optimizing the steering power. The introduction of electronic torque transducers in power steering help to increase vehicle fuel efficiency through the use of electric steering systems. Accelerated adoption of built-in force transducers in harmonic devices fuels demand from the industry.

The extensive use of torque sensors in automotive applications has contributed to the high growth rate of the market in the years to come. This growth can also be associated with the increased demand for rotary and linear force torque sensors. Automotive manufacturers integrate more torque sensors into their products to add extra features and stay ahead of other players in the highly competitive marketplace.

A strain gauge is the most prevalent transducer that transforms torque into a change in electrical resistance. The strain gauge is bonded to a beam or structural component

which deforms when applying a torque or force. Deflection causes tension that changes their resistance. A Wheatstone bridge helps to convert the resistance change into a calibrated output signal. A reaction torque cell design eliminates the side loading (bending) and axial loading, and is sensitive to torque loading only. The performance of the sensor is a force and distance function, and is generally expressed in inch-pounds, foot-pounds, or Newton-meters.

Based on Type, the market is segmented into Rotary Torque Sensors and Reaction Torque Sensors. Based on Technology, the market is segmented into Strain Gauge, Magnetoelastic, Surface Acoustic Wave and Others. Based on Application, the market is segmented into Automotive, Test & Measurement, Aerospace & Defense, Industrial and Others. Based on countries, the market is segmented into Germany, UK, France, Russia, Spain, Italy, and Rest of Europe.

The market research report covers the analysis of key stake holders of the market. Key companies profiled in the report include Honeywell International, Inc., ABB Group, Infineon Technologies AG, MTS Systems Corporation (PCB Piezotronics, Inc.), Snap-On, Inc. (Norbar Torque Tools), Crane Electronics, Ltd., FUTEK Advanced Sensor Technology, Inc, Applied Measurements Ltd., Kistler Group (Kistler Holding AG), and MagCanica, Inc.

Scope of the Study

Market Segmentation:

By Type

Rotary Torque Sensors

Reaction Torque Sensors

By Technology

Strain Gauge

Magnetoelastic

Surface Acoustic Wave

Others

By Application

Automotive

Test & Measurement

Aerospace & Defense

Industrial

Others

By Country

Germany

UK

France

Russia

Spain

Italy

Rest of Europe

Companies Profiled

Honeywell International, Inc.

ABB Group

Infineon Technologies AG

MTS Systems Corporation (PCB Piezotronics, Inc.)

Snap-On, Inc. (Norbar Torque Tools)

Crane Electronics, Ltd.

FUTEK Advanced Sensor Technology, Inc

Applied Measurements Ltd.

Kistler Group (Kistler Holding AG)

MagCanica, Inc.

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