

LAMEA 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 Latin America, Middle East and Africa Torque Sensor Market would witness market growth of 9.2% CAGR during the forecast period (2019-2025).

Reaction torque sensors are used in situations where the cable is not damaged by limited rotation. Its use minimizes error that might occur because of rotating component inertia. They are used to calibrate torque wrenches, test aircraft fasteners for breaking torque and track the opening torque of child-proof containers. Many widely accepted methods for measuring torque depend on machine train mounting transducers or rotating shaft. These processes, with few exceptions, employ strain gauges. Each approach has both advantages and disadvantages, many of which are based on implementation. A detailed understanding of the application is a requisite for the best solution.

Two popular ways to extract torque measurements are through strain-gauging the shaft and by using in-line torque cells. Both have two technological obstacles, getting power over the stationary/rotating distance to the gauges, as well as getting back the signal. The techniques of bridging the gap are either contact or contactless. A torque sensor is a transducer that transforms a mechanical torsional input into a signal for electrical output. In other words, the torque sensor is called a tool used for recording and

calculating the torque of a rotating mechanism. Machines such as gearboxes, engines, electric motors, and crankshafts form part of the rotating system, and torque sensors ensure high quality and performance optimization of the system.

The adoption of torque sensor across the commercial sector is estimated to accelerate at a rapid rate over the forecast period. This trend can be associated with various factors like increased demand for high performance vehicles, extensive penetration of EPS in passenger vehicles, and a surge in the demand for new torque measurement technologies. However, high installation costs are likely to impede global market growth. In the commercial sector, the demand for torque sensors is evaluated and measured according to the impacts of drivers, restrictions, and opportunities.

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 Brazil, Argentina, UAE, Saudi Arabia, South Africa, Nigeria, and Rest of LAMEA.

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

Brazil

Argentina

UAE

Saudi Arabia

South Africa

Nigeria

Rest of LAMEA

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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