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This figure shows the results of the dynamometric test performed in our lab on the new MST 350.

Applying torque either clockwise or counterclockwise, the response of the sensor is highly linear and repeatable on the whole measurement range [O Nm ÷ 350 Nm].

Applications and Market

Torque is a key parameter in many industrial applications. Its monitoring is very important as active safety countermeasure to prevent sudden faults, which, for example, is the typical failure condition occuring in power transmission applications. Moreover, it is useful to obtain information about the real working conditions of a machinery.

But torque mesurements is an expensive and not easy task. Nevertheless, the total market of the torque sensors is growing with a CAGR of 9.3% reaching 1.890 Million of USD by 2021 (source: Persistence Market Reaearch). These forecasts are based on the products available up today for the driving sectors of this market like **Power Transmissions**, **Agricolture and Off-Highway veichles**, **Automotive**, **Aerospace and Robotics**.

We believe that the introduction of a **new low-cost** technology for torque monitoring is the enabling factor to find new application fields and open promising markets.

MST 350: a revolution in torque sensing

We reinvent the torque measurement by means of our **new patent pending low cost and reliable technology,** allowing simplifying the sensor architecture, with a significant cost reduction.

MST 350 exploits a **Plug & Play architecture** allowing avoiding interruptions or modification of existing parts of the components to be monitor. The installation is easy and doesn't require special skills or special tools.

We made the MST350 smart by adding **Wireless connectivity**. This allows the remote monitoring of the sensor data by using a normal PC as well as a smartphone or a tablet. Moreover, it is possible to integrate the sensor into an existing CAN network by means of an additional dongle.

The **core technology is highly scalable**. This allows to make the sensor light, compact and highly customizable.

The sensor architecture has been designed to host redundant parts, in order to be **suitable for safety critical systems**.

"Dur mission is to provide the technology needed to bring the products of our customers a step forward in the future"

MST 350's Main Features

New Low Cost Technology

- High Reliability, Accuracy & Repeatability
- Simplified Sensor Architecture
- Highly Scalable Technology
 - Reduced Weight & Dimensions
- Easy Customization accordingly with the specific application
- ✤ Plug & Play
- Easy Installation (no special skills required)
- NO interruptions or modification of existing parts
- Aftermarket Ready
- Smart Connectivity
- Wireless data monitoring with smartphone or tablet
- loT Ready for remote diagnostics & pre-fault maintenance
- Easy integration into existing CAN bus networks
- Suitable for Safety Critical Applications
- The MST 350 SC (Safety Critical) variant is designed with a redundant architecture, with seamless system reconfiguration in case of fault

About Us

IndioTECH is a **high-tech start-up company** developing innovative smart sensors for mechanical load monitoring. The company was founded in 2016 in Reggio Emilia (Italy), in the middle of the world famous "Motor Valley", where the passion for mechanics and mechatronics is a must.

