

Press Release

High performance and reliability: appointment at Bauma 2022 with Gefran solutions for increasingly digital mobile hydraulics

Provaglio d'Iseo, 20th October 2022. **Gefran** – Italian multinational specialising in the design and production of sensors, instrumentation for industrial process control, and automation systems – will be participating in Bauma 2022, the leading international trade fair for construction machinery scheduled in Monaco from 24 to 30 October. Featuring at the company's stand (Hall A3, Stand 313/C) will be the new Gefran sensors for mobile hydraulics applications. The innovative multivariable transducer TWIIST will be on display, in addition to a complete range of sensors for mobile applications.

TWIIST: The innovative multivariable transducer

This multivariable transducer for contactless position sensing will revolutionise measurement technology in automation and redefine the role of sensors. **TWIIST**, in the versions with **IO-Link** digital output to meet 4.0 requirements and **CANopen** ideal for use on mobile vehicles, will, in addition to position, be able to record several process variables that include travel speed, acceleration, vibration, angle of inclination, real temperature and maximum peak reached, hours of work and number of km travelled by the cursor. In addition, it will enable accurate sensor condition monitoring, detecting any irregularities in the operation of the machine. It is also equipped with a patented 3-dimensional **Hall Effect** measurement system and has an environmental protection rating of **IP67**.

Full range: sensors for mobile work machines

Gefran will be presenting a wide range of solutions for recording multiple variables, from the angle of rotation to pressure and inclination. Examples are the single / dual axis inclinometers **GIB**, **GIG** and **GIT** with **MEMS technology**, the E1-approved contactless Hall effect sensors **GRA** and **GRN** used for measuring angles of inclination between 0 and $\pm 180^\circ$ degrees. High degree of IP protection, **resistance** to shocks and vibrations and **electromagnetic compatibility** are common characteristics to these products which make them ideal in the mobile hydraulics field. Lastly, with a height of only 65 mm, here is the **GSH** contactless linear transducer. These sensors, based on **Hall technology** are not affected by wear and, in addition to their small size, are characterised by a nearly **unlimited life** and excellent performance.

*"Gefran is appreciated on the market for its wide range of mobile hydraulics devices for the set-up of machines as a whole," says **Edoardo Zilioli**, Sensors Marketing Manager of **Gefran**, who concludes: "In these applications, Gefran guarantees several bonus features: an internal team of dedicated technicians, robust and reliable products, total safety guarantee in constantly changing and often harsh working conditions, and a specialised sales network that, together with us, is capable of meeting all our Customers' design requirements".*

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Gefran

*With headquarters in Provaglio di Iseo, Gefran is an Italian multinational group specialised in the design and production of sensors, industrial process control instruments and automation systems. Competence, flexibility and process quality are the distinguishing features of Gefran in the realization of tools and integrated systems for specific applications in different industrial fields, with a consolidated know-how in the fields of plastics, metal, paper and heat treatment. Technology, innovation and versatility represent the value-added features of Gefran solutions: sensors, automation platforms, regulators and power controllers designed to increase the efficiency of production processes, also in terms of energy saving. Today, the Company has over **800** employees, including almost 500 in Italy and consolidated collaborations with national and international research centers and universities. Gefran operates on the main international markets through **5 production subsidiaries** in Brazil, China, India, Switzerland and the United States. In addition, there are sales subsidiaries in Germany, France, the United Kingdom, Belgium, Singapore and over **80 international distributors** for global sales support.*

Gefran is listed on the Milan Stock Exchange in the FTSE Italia STAR segment.

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