

## Press Release

### **K 2022 the ideal setting for Gefran to showcase innovation and expertise gained over more than half a century in the plastics industry**

**Provaglio d'Iseo, 26th September 2022. Gefran** – the Italian multinational group specialised in the design and production of sensors, industrial process control instruments and automation systems – will be at the world's leading trade fair in the **plastics sector**, taking place in **Düsseldorf** from **19 to 26 October**. In **Pavilion 10, Stand F09** Gefran will be demonstrating its top-level process know-how, making the company an ideal partner for OEMs, system integrators and end users. The company offers a wide range of innovative products and, via **Gefran Solutions**, the design and manufacture of automation systems, electrical panels and dedicated software for the plastics industry.

*“Gefran is eagerly awaiting the 2022 edition of the K exhibition where the Group will be showing what it has achieved against the trend in an extremely complex market,”* says **Marcello Perini**, **Gefran** CEO. *“The exhibition will give us the ideal opportunity to renew our commitment to our Clients and Partners, as a key player in the technological evolution. This is possible thanks to our in-depth know-how in the leading applications in the plastics industry, the result of over 50 years in the sector. Product excellence, continuous innovation and open communications standards are hallmarks of ours and are the key to reaping the benefits of digital transformation,”* **Perini** adds.

## Product news

### **TWIIST, not just a sensor**

**TWIIST**, an innovative multivariable transducer intended for contactless position sensing, which revolutionises measuring technology for automation by redefining the role for sensors. Its versions with **CANopen** and **IO-Link** digital output pinpoint not only position but also communicate process variables such as speed of motion, acceleration, angle of inclination, real and maximum temperature, work time and kilometers travelled by the cursor. The first of its kind, with patented measuring system based on the 3-D Hall Effect, **TWIIST** has a wide range of applications for the transformation of plastics.

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## IO-Link static units

Also front and centre at **K** will be the **GRx** series of solid state single-phase relays, the Gefran scalable platform for incremental performance, with integrated diagnostics for electric resistor control in industrial heating. Models include the **GRS-H**, **GRP-H** and latest **GRM-H**, which integrates the typical features of a power controller within the dimensions of an SSR to manage linear and nonlinear loads such as MoSi<sub>2</sub>, Sic, SWIR, graphite and transformers. Making its debut will be the **GRZ-H**, a further two/three-phase development, due to be launched in the coming months.

## Advanced communication at the field level with KS-I

The new **KS-I industrial pressure** probe, with **IO-Link 1.1** interface and state-of-the-art **diagnostics**, measures both pressure and temperature, with sampling frequency of **1,000 times a second**. **KS-I** probes communicate with the **IO-Link Master** at **COM3** speed, i.e. **230.4 Kbaud**, the fastest possible.

## A Smart family

Of course, the Gefran **HYPERWAVE** range – a synonym of high-performance **magnetostrictive technology** - will feature prominently. The family of contactless position transducers now includes models with analogue output and synchronous serial transmission, **WPL** sensors with **digital IO link V 1.1** interface, to meet the needs of Industry 4.0. Plus **WPA-F** and **WRA-F**, world firsts, with **HYPERWAVE** technology and **PROFINET**<sup>®</sup> connectivity. Further enriching the range is the **WRA-E** model with **EtherCAT** transmission.

## The new I/O in EtherCAT

On show will be the new **Gilogik III** I/O systems series, building on the **Gilogik II**, which manages digital inputs/outputs on the **EtherCAT** fieldbus.

## Gefran technology for injection moulding machinery

Finally, at **K** Gefran will showcase its **QE2008-W** system, evolved from the **QE1008-W** complete set of wireless sensors, with even more accurate measurement of the **deformation of columns**

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and clamping force in **injection moulding** and **die casting**. **QE2008-W** has new functions including **Bluetooth 5.0** communication, long-lasting and quickly recharging **lithium polymer** batteries and **cavity pressure profile** monitoring. Unchanged is the quick and trouble-free fitting with patented magnetic press-on technology, enabling the strain gauge to be placed directly onto the measuring surface without gluing or heat treatment.

## Programmable automation in the transformation of plastic materials

Over the seven days, the spotlight will also be shone on **Gefran Solutions**, the Group division working alongside **machinery manufacturers** and system integrators to create complete systems for programmable automation. Starting from a broad template portfolio, the engineering team works with Clients to develop optimised software apps both in terms of process control and display, for the specific needs of plastics processing machinery: from injection, extrusion and blow moulding, the main requirements, without neglecting others.

Fundamental for Gefran is the ability of individual products to generate useful data for process control, condition monitoring and maintenance, since they are designed for integration in machinery using the most common fieldbuses. They include the **IO-Link** for **extensive** plant digitalisation, **EtherCAT**, high-performance and widespread market-appreciated architecture, **OPC-UA** and **MQTT** for the rubber and plastics industries.

## 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 6 production subsidiaries in Brazil, China, Germany, India, Switzerland and the United States. In addition, there are sales subsidiaries in 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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