

PRODUCT RANGE



GEFRAN



Thanks to forty years of experience, Gefran is the world leader in the design and production of solutions for **measuring, controlling, and driving industrial production processes**. We have branches in 14 countries and a network of over 80 worldwide distributors.

QUALITY AND TECHNOLOGY

Gefran components are a **concentration of technology**, the result of constant research and of **cooperation with major research centres**.

For this reason, Gefran is synonymous with **quality and expertise in the design and production of:**

- **sensors** for measuring main variables such as **temperature, pressure, position and force**
- **state-of-the-art components and solutions for indication and control**, satisfying demands for optimisation of processes and intelligent management of energy consumption
- **automation platforms** of various complexities
- **electric drives** to control AC, DC, and brushless motors used in modern plants for industrial automation and civil lift engineering

Gefran's know-how and experience guarantee continuity and tangible solutions.

SERVICES

A team of Gefran experts works with the customer to select the ideal product for its application and to help install and configure devices (customer@gefran.com).

TRAINING

Gefran offers a wide range of courses at different levels for the technical-commercial study of the Gefran product range as well as specific courses *on demand*.



APPLICATIONS



PLASTIC



METAL



ELECTRICAL FURNACES



MOBILE HYDRAULICS



LIFTS



WATER & HVAC



CRANES & OVERHEAD CRANES

In addition to foreseeing the market's application needs, Gefran forms partnerships with its customers to find **the best way to optimise and boost the performance of various applications.**

Gefran products communicate with one another to provide integrated solutions and can interact with devices from other companies, thanks to their compatibility with numerous field buses.

CANopen

EtherCAT

GDNET
Gefran Distributed Network

DeviceNet

EtherNet/IP

Modbus

PROFIBUS

PROFINET

HART
COMMUNICATION PROTOCOL

SENSORS

PRESSURE TRANSDUCERS AND TRANSMITTERS

Instruments to measure fluids, liquids or gases: ideal for all industrial applications. Also available in ATEX Intrinsic Safety versions for use in potentially explosive atmospheres.



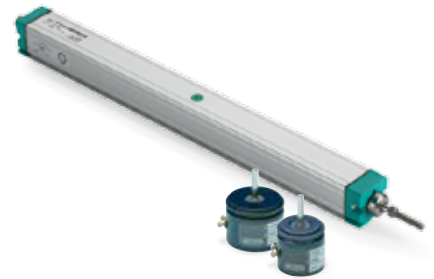
MELT PRESSURE SENSORS

Melt pressure sensors and high-temperature pressure transducers and transmitters are available with mercury filling, with FDA-approved fluid, and in fluid-free versions. Ideal for extrusion and injection applications.



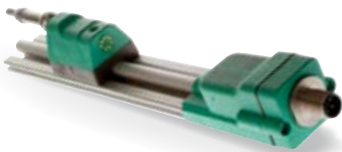
POSITION TRANSDUCERS: POTENTIOMETERS

Sensors for measuring linear or angular displacement, suitable for all industrial applications. These are "Simple devices" according to EN 60079-11:2007 (Explosive atmospheres. Equipment protected by intrinsic safety "i"). Robust and versatile even in heavy-duty applications.



POSITION TRANSDUCERS: MAGNETOSTRICTIVE

Gefran magnetostrictive position sensors are an advance over potentiometric position transducers and offer solutions for more complex applications. Now available with ONDA technology for simple installation, versatility, and excellent quality/price ratio.



THERMOCOUPLES – RESISTANCE THERMOMETERS

Gefran offers a wide range of contact temperature sensors, plus custom versions based on type of application, environmental conditions, work, temperature range, and precision required.



LOAD CELLS AND FORCE / COMPRESSION TRANSDUCERS

Sensors to measure the tension of plastic films and tapes, plus a range of products that measure force, load and compression/traction.



AUTOMATION

CONTROLLERS, PROGRAMMERS

A wide range of panel-mounted instruments for precise measurement of temperature, pressure, force, position, humidity, etc. Available in Basic, Value, Performance and Multifunction versions, with control and recording functions.



INDICATORS ALARM UNITS

Panel-mounted microprocessor instruments, configurable to display temperature, pressure, capacity, force, position, voltage, current, humidity, etc. With programmable alarms and diagnostics.



POWER CONTROL Solid state relay, Solid state contactor

Solid-state relays and power units with built-in heatsink, load diagnostics to control resistive loads. Complete range from 15 A to 120 A



POWER CONTROL Power controllers

Actuators and solid-state relays to control resistive/inductive/infrared loads in modern temperature control systems. Complete range up to 250 A and exclusive, patented solutions (such as the Xtra series) to protect against short circuits.



AUTOMATION PLATFORMS

GCube Fit CUSTOM CONTROLLER

A compact, custom solution to control and display small/medium-size systems and machines.
Process control, data logging, and PLC all in one unit.



AUTOMATION PLATFORMS

GCube Modula INTEGRATED CONTROLLER

An integrated solution especially suitable for medium-size systems and machines, where scalability, management of multi-protocol communication and remote access service are essential.



AUTOMATION PLATFORMS

GCube Performa EMBEDDED CONTROLLER

An extremely flexible and economical industrial solution for medium-high complexity applications.
A complete and integrated solution for machine control, monitoring, communication and automation management.



AUTOMATION PLATFORMS

Integrated development environment

GF_Project VX and GF_Project LX development environments for all Gcube platforms. A series of integrated and standard configuration modules (IEC61131-3) for easy and intuitive development of different types of automation.



MOTION CONTROL

INDUSTRIAL INVERTERS

A wide range of field-oriented inverters for the control of asynchronous and synchronous motors either in closed and open loop, applied in the most advanced architectures of automation systems, with standard or customized applicative solutions and installation both air cooled or liquid cooled.



DC BUS AND REGENERATIVE POWER SUPPLIES

Gefran's continuous research provides a wide range of regenerative power supplies, such as Active Front End (AFE200) and Fundamental Front End (FFE200), that implement the most advanced energy-recovery technologies. The SMB200 power supply is ideal for high power applications. The DC bus power supply is used when recovery of any kinetic energy is moderate.



SERVODRIVES

Dedicated to the most advanced motion control systems, the Gefran servo drives are providing a very wide currents range and mechanical solutions for both modular or stand alone technologies in a single drive.



ARMATURE DC CONVERTERS

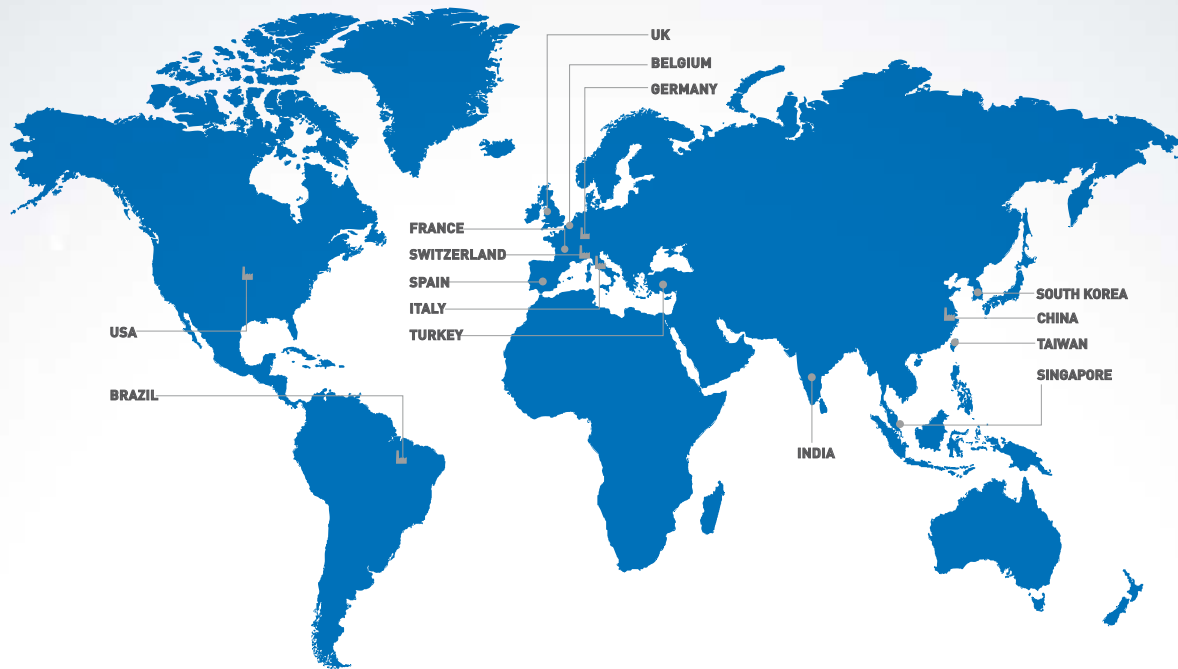
The series of digital armature converters with 2 and 4 quadrants configurations, provides the highest technology for the use of DC motors applied in modern automation solutions.



LIFT INVERTERS

A range of inverters designed for the civil lifting market. Technology and performance aimed at modern elevator systems and projects for lift refurbishments.





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