

Packaging

GEFRAN packaging solutions



GEFRAN

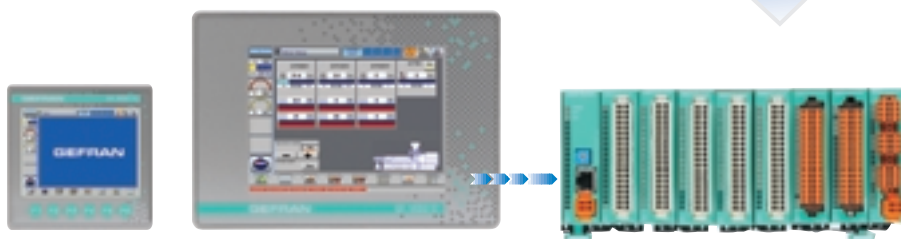
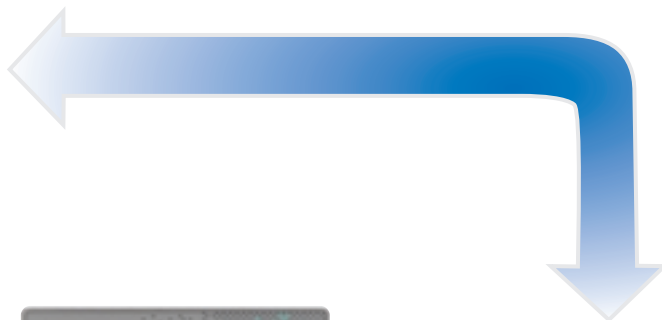
Our Knowhow,
Your Solution.

Control of format in transport belts and packaging machines

PACKAGING AND TRANSPORT



Magnetostriuctive MK4
with two or more cursors



SoftPlc Control + remote I/O

In packaging machines, transport lines and many other types of packaging machines it is necessary to control format changes, requiring the movement and adjustment of dividers or guides.

To date this operation has been carried out manually or, at times, automatically, with mechanically preset points using limit or proximity switches.

More frequently, however, the level of flexibility required involves the use of sensor equipment for positioning on non-preset points through position control or communication of moving parts.

The use of an absolute-position magnetostriuctive transducer, like those in the MK4 series, permits precise, reliable, repetitive monitoring without any wear and tear problems.

The possibility of choosing different interfaces (analog, digital, fieldbus) makes connections with the control system easier, while the possibility of adopting multicursor sensors provides an economic advantage, due to the monitoring of a number of positions using a single sensor.



You can find detailed information on these products: technical data, user manual, software:
www.gefran.com - mktg.automation@gefran.com

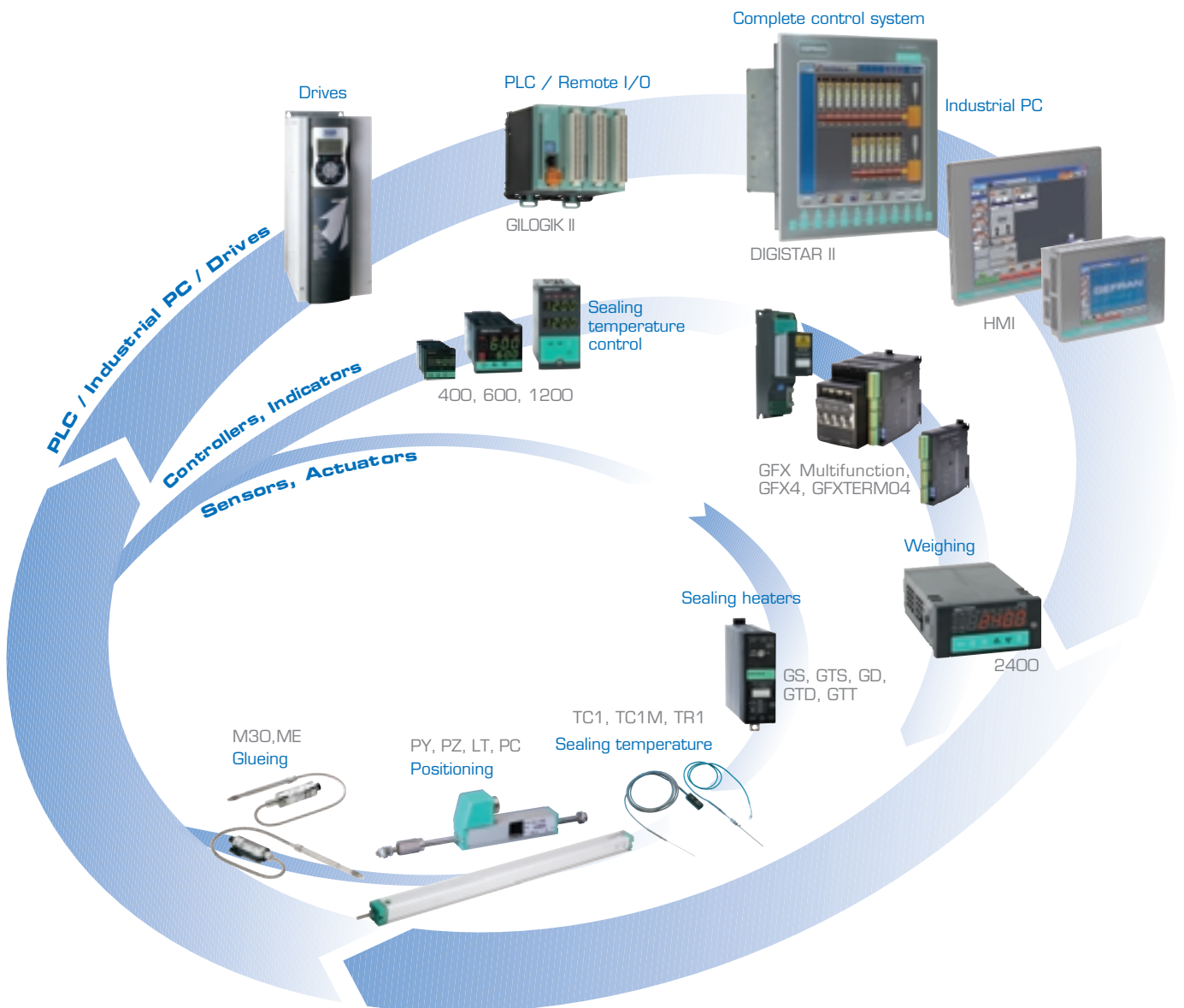
Gefran Packaging Solution

Gefran SpA offers automation architectures that solve, on the one hand, specific individual packaging machine functions and, on the other hand, are able to carry out supervision functions, remote I/O control and complete automation based on PLC and Soft-PLC structures.

Gefran's range is distinguished by its completeness, starting with the acquisition of physical machine variables through its range of industrial sensors, and concluding the control loop with actuators like solid state relays and power solid state relays, and the range of drives by its associate company SIEL.

Machine control is performed with the new "VEDO", operator panels, programmable with IEC 1131-3 standard and with on-board I/O.

Integration of the sensor with control, supervision and actuators is a standard for Gefran, given that the company, since it began its operational activity more than thirty years ago, has been a direct integrator of its products, providing "turnkey" solutions.



: Packaging

Modbus TCP

Modbus

PROFI
BUS

CANopen

DeviceNet

Four channels of Temperature Control for sealing bars

SEALING

Exclusive
"All in one" solution

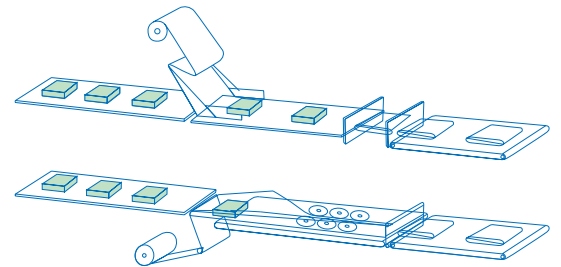
PID	SSR
CT	Fuse
Fuseholder	Fieldbus



Thermocouples



GFX4 4 loop controller



SoftPlc Control + remote I/O

GFX4 represents an innovative and exclusive solution for temperature control of the sealing bars used extensively on packaging machines for package sealing.

A single compact device, arranged for DIN rail mounting, includes fast and precise temperature control functions, as well as solid state relay and heatsink, integrated current transformer for load control, extrafast fuse and fuseholder, all multiplied by four independent and programmable channels. Savings in terms of space and wiring are absolutely guaranteed. Connectivity of the GFX4 with the machine controller or directly with the operator panel is made easier by the availability of Modbus RTU, CANopen, Profibus DP, DeviceNet, Modbus TCP.

Weight control on multihead filling machines

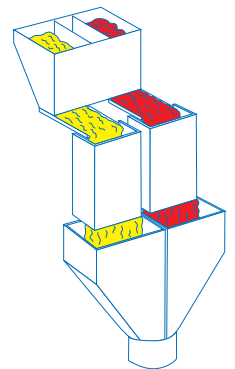
WEIGHING



OD load cells



2400 fast indicator-
-interceptor



SoftPlc Control + remote I/O

With the new "2400" fast indicator/interceptor ("sampling time" of only 2msec), it is also possible to manage multiple independent weighing processes. The two high resolution (100,000 points) universal inputs directly accept connection with load cells (typically, Gefran OD models).

The four available outputs can be freely set to reference channel 1 or channel 2.

A Modbus RTU communication line with baudrate programmable up to 115200 bps conveys weighing information directly to the control system, where it is possible to introduce the individual weighing setpoints and other operational parameters.

Positioning control for sealing

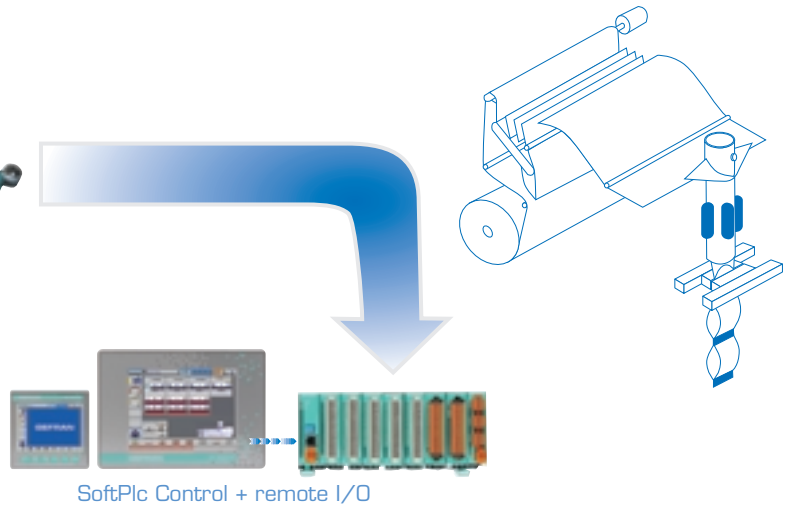
POSITIONING



Potentiometer PZ



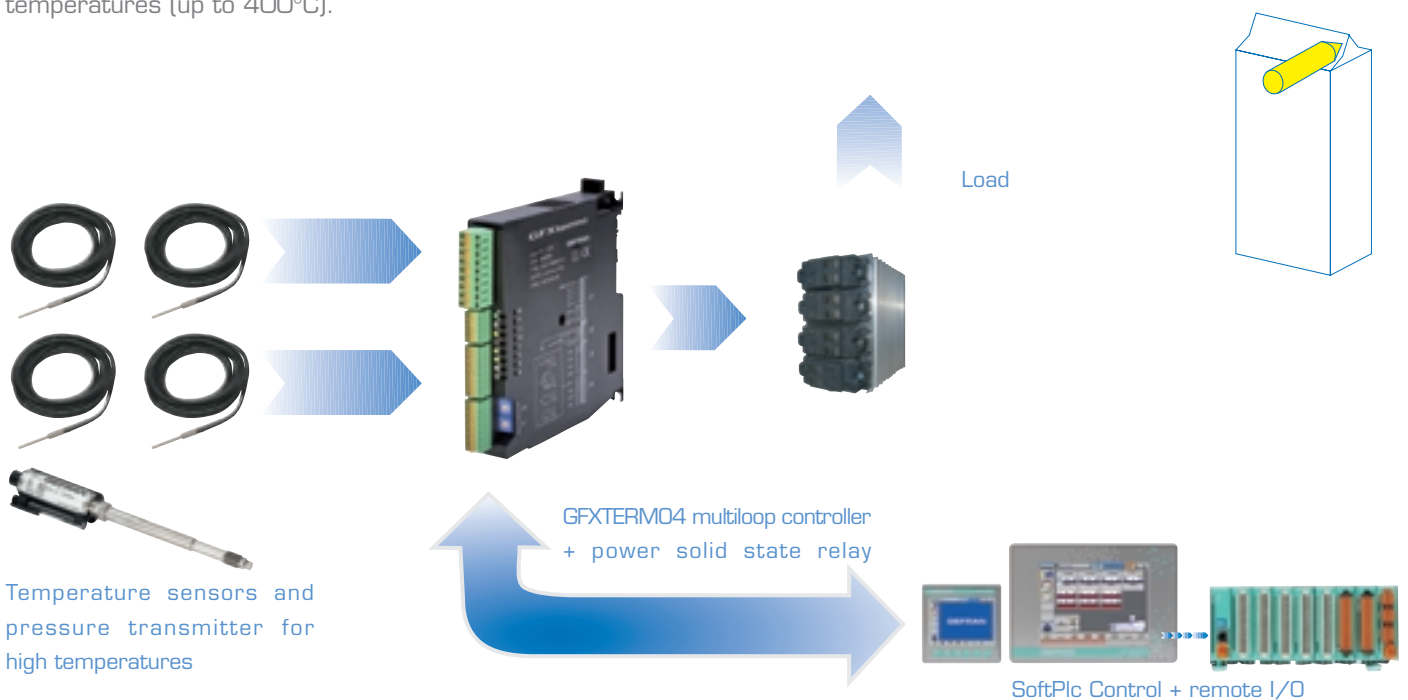
Potentiometer PC



In vertical packaging machines, as in horizontal wrapping machines, position transducers are often used to appropriately position the sealing bar, or to measure the dimensions of the different objects to be packaged. The PZ potentiometric position transducers, with self-aligning ball-joints at both ends or, alternatively, the PC model for applications where greater sturdiness and IP protection (up to IP67) are required, are ideal components for such applications.

Temperature and pressure control for "HOT MELT" glue dispensers

For machines and lines that use melted glue under pressure with relative dispensers, such as box machines, wrapping machines and sealing machines for packets and trays, the GFXTERMO4 multichannel controller represents a compact and complete solution capable of controlling the temperature in up to four independent areas, and acquiring the pressure value measured by pressure transmitters, such as the Gefran MN and WN series, for use in environments with high temperatures (up to 400°C).



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Your Solution.

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