

**Company  
Profile**

# Ges tecto

**INSTRUMENTS FOR GEOTECHNICAL AND STRUCTURAL MONITORING**

# Hi sto ry

**G**estecno was founded in 1992 as a service company in the fields of testing and non-destructive testing and geotechnical and structural monitoring.

**O**ver the years, the desire to offer its customers reliable products at high-quality and low costs prompted the company to develop and manufacture the instruments on their own, drawing on deep experience directly in the field for over 20 years.

**C**urrently Gestecno designs and manufactures most of the products it offers; thanks to the positive feedback received from the numerous customers who have had the opportunity to use its products over the years, it has become a point of reference in its sector, an important reality on the national scene and, in recent years, is emerging successfully also to foreign markets that appreciate its "100% made in Italy" production.



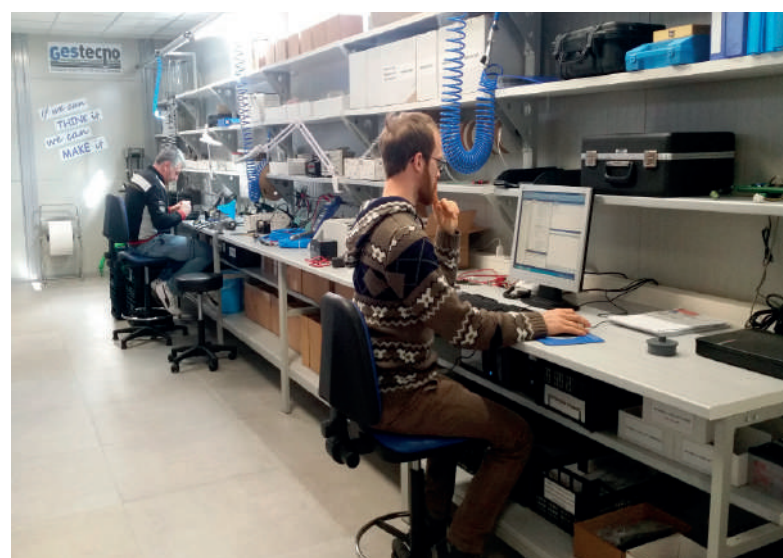
# Com pa ny

**G**estecno headquarter is in Marche, in the heart of Italy, located in a new facility. At the inside, wide spaces are dedicated to the projection, production activity and test.

**G**estecno also has a large and replenished **warehouse** for the storage of raw materials, finished products and semi-finished products, which represents an important strategic element for the company to reduce at minimum delivery times.

**T**hanks to a young staff composed by high skilled and strongly motivated people, Gestecno is able to meet the different needs of the customer, both through the supply of standard products and services and through the design and implementation of custom solutions.

**G**estecno constantly invests in R&D, to improve the performance and competitiveness of its products, and is ISO 9001:2015 certified, as proof of an accurate attention to the quality and the respect of defined protocols.



# Products

**G**estecno designs and manufactures a wide range of instruments for geotechnical, geomechanical, hydrogeological, and civil engineering.

**I**n addition to the necessary sensors for the measurement of physical quantities, Gestecno also makes the necessary manual and automatic systems for data acquisition, using the most innovative technologies available in the industry, and thus providing its customers with a complete service.

**E**lectrical crackmeters, tiltmeter, load cells, strain gauges, extensometers, level sensors, water level indicators, flat jacks, borehole extensometers, in place inclinometers, weather sensors, manual reading units, automatic data acquisition systems: these are just few examples of the wide range of Gestecno products.



# Mission and Vision

## Quality

The main objective of Gestecno is to offer products with design, materials, and technical solutions that are able to expertly combine quality, reliability, and low cost. To accomplish this, Gestecno manufactures all of its products in its own laboratories, using highly qualified external resources for special processing. The continuous search for innovative technical solutions, along with a careful selection of materials and technologies and a streamlined internal organization, have allowed Gestecno to optimize the production process over the years and therefore to produce products with a high quality to price ratio.

## Reliability

Gestecno welcomes customer requests and handles projects as if they were their own. Gestecno takes care of the various and different needs of each project with professionalism, proposing solutions that are technically and economically adapted to each problem. Gestecno intends to present itself as an extremely reliable partner, thanks to the constant commitment to respect the promised times and quality standards, as well as the ability to identify effective, complete, personalized and safe solutions.

## Flexibility

Thanks to the slenderness and flexibility of its operating structure, Gestecno is able to design and create customized systems and solutions for particular applications and requests. Each new project is an opportunity for Gestecno to demonstrate its wealth of skills and experience gained over many years of work carried out with passion and professionalism: this is why it always faces it as a challenge and an unmissable opportunity for growth.

## Rapidity

Gestecno has a large and stocked warehouse that allows it to minimize delivery times. Many products are ready for delivery (including water level meters, flat jacks, vibrating wire strain gauge, crackmeters, electric load cells, read out units, etc.), and many other products (including borehole rod extensometers, in-place inclinometers, etc.) have a short waiting time due to the effective assembly of components already available and stored in warehouses.



# Projects and References

**O**ver the past few years, its strengths being high quality/price ratio, reliability, flexibility and speedy delivering times, Gestecno has been able to collaborate, among several Italian and foreign retailers and distributors in the sector, with prestigious and outstanding clients such as:

**R**esearch Institutes (CNR IRPI) and Universities (Polytechnic University of Marche, University of Rome La Sapienza, etc.)

**P**ublic Bodies (Civil Protection, Regions and Provinces, etc.) and Regional Agencies for Environmental Protection

**N**etwork and Infrastructure Providers (RFI, ANAS, TERNA, ENEL, etc.)

**L**arge Infrastructure Companies (CMC di Ravenna, Strabag AG, Trevi SpA, Rodio SpA, etc.)

**G**estecno products and systems have been used and installed in many Italian and foreign construction sites of public buildings and infrastructures (Rome Underground, Istanbul Underground etc.), in many sites of historical and environmental interest (Frasassi Caverns, Marmore Falls, etc.) and in the monitoring of crucial hydro-geological disasters.



# Keep ing up with the ti mes

**O**ver the past few years both public opinion and administrations have paid more and more attention to structural monitoring as a tool to control and evaluate the state of conservation of infrastructures (roads, bridges, tunnels, hydraulic infrastructures etc.) and public utilities (large buildings, buildings of historical and artistic interest, strategic buildings, etc.).

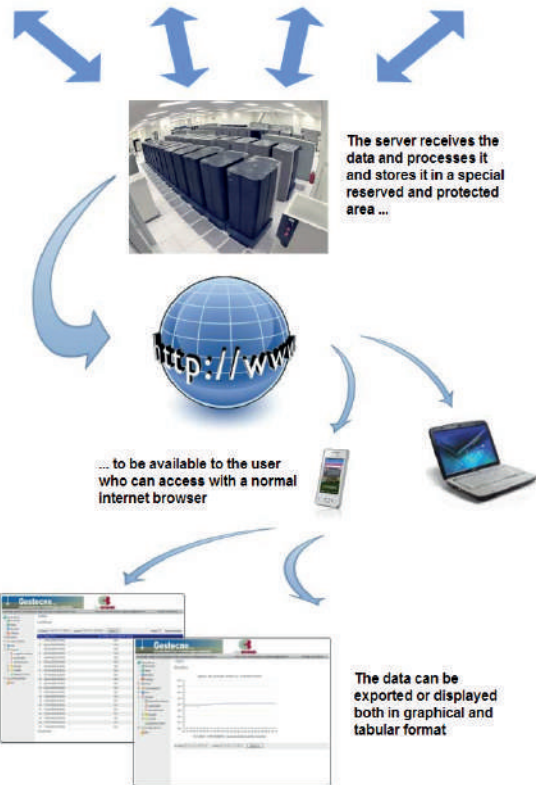
**G**estecno, which has engaged in the design and production of sensors and data acquisition systems in this sector for nearly 30 years, performs as an outstanding spokesman in this area, thanks to its qualified work team, the skills gained over time and the ability to use the latest up-to-date technologies available on the market.

**I**n addition to traditional systems, by exploiting the impressive developments lately achieved in the information technology sector, Gestecno has devised and created a range of sensors and specific data acquisition systems for structural monitoring. These are low-cost and easy to install. Also low is their environmental impact and the consumption and maintenance they require.





Remote instruments detect data from sensors and transmit them to the server



**T**his new structural monitoring system by Gestecno is extremely modern and versatile and is based on the latest generation NB-IoT standard.

It consists of a wide range of sensors able to control the main physical quantities (displacements, inclinations, deformations, loads, temperature, humidity), which can be quickly and easily fixed to the structure to be monitored, without wiring and configurations.

**T**hese sensors are connected one-to-one and directly with a server turning them into information that are easy to analyze and use, storing and making them available on a platform. This last is accessible to any authorised user by means of any device connected to the Internet (PC, Tablet or Smartphone) and with no need of an additional specific software.

**S**uch a system has the following advantages:

**G**ains information continuously and remotely

**M**akes the monitoring activity more effective

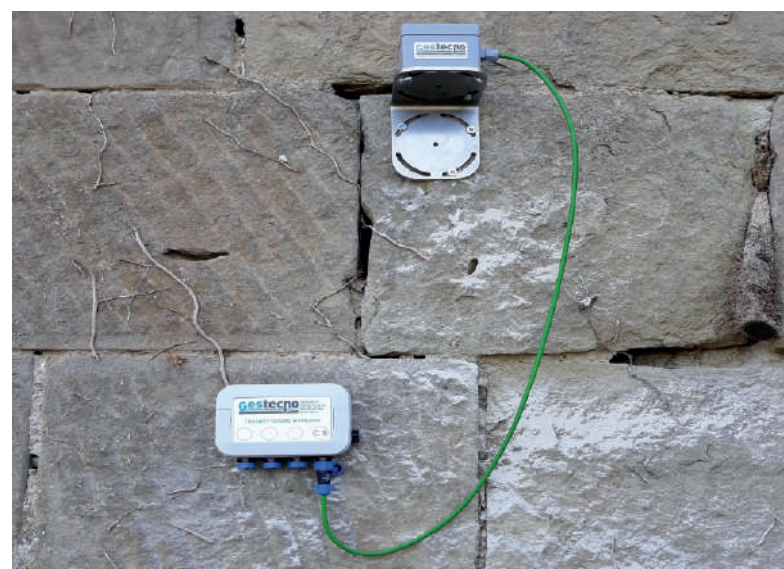
**R**educes the costs of collection of data for interest parameters

**C**onsiderably reduces the risk of deterioration

**A**llows programming and simplifying maintenance operations

**P**rovides the possibility to send alarms upon excess of thresholds

**F**inally, this system, through remote "near real-time" monitoring, allows timely intervention in case of deterioration of the structure and gives a positive and reliable impression of the company and of the organisation that, by adopting these devices, shows as keeping up with global standards of technology and security.







**If we can THINK it  
we can MAKE it**

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