



LETOMECC

Letomec srl makes the most of the long-standing experience, gained during decades of academic and industrial consultancy, with the aim of proposing itself as resource for problem solving and innovation. Letomec has years of experience in hydrogen-steel interaction investigations. In particular the company developed also a series of innovative patented instruments, useful for hydrogen embrittlement investigations on metals with the aim of combining reliability of result with practicality for industrial applications. Letomec offers also support to steel production development in terms of both plant modification or adaptation and development of new products. Moreover, Letomec srl works in the field of design and analysis of components, systems and mechanical plants.



**AZIENDA SPINOFF
DELL'UNIVERSITÀ DI PISA**

Company name: LETOMECC S.R.L.

Location: PISA (PI), Viale Giovanni Pisano 55, 56123

Fiscal and VAT code: 02025720505

Established: October 2011

Legal form: LIMITED LIABILITY COMPANY (LLC, SRL)

Internet site: <https://letomecc.com/>

NACE Code: 74.9

Sector: Spinoff: University of Pisa

PMI, Requirements for technological innovation: R&D, Qualified team and IP

Turnover
Value
350 - 400 K

Subscribed
Capital
10 K

NO
Female,
Foreign or
Young
Predominance

MISSION

Promote scientific and technological research with the development of hi-tech solutions for industrial production and the use of materials in the context of environmental sustainability, saving resources with the general objective of improving social well-being. In this sense, the prevention of the risks of hydrogen embrittlement plays a fundamental role, since hydrogen itself is one of the most important energy carriers of the new generation.

VISION

To employ the knowledge, method and scientific rigor, deriving from the academic origins of the founders of Letomec, to respond to the needs / needs of the international industrial sector by offering practical solutions and immediate implementation / application under the stimulus of rapid technological evolution, in particular in the field of prevention of damage from hydrogen embrittlement.

THE BUSINESS IDEA

Hydrogen embrittlement is the main risk factor for high performance steels, in particular, for the new generation high-strength steels. The high susceptibility to embrittlement requires careful and up to now complex monitoring hydrogen to ensure compatibility of the material with the stringent requests for reliability and compliance with safety criteria. Letomec Srl has developed a range of "HELIOS" instruments with which it is possible to measure directly on components in operation, the concentration of hydrogen present in the materials metallic. The range of HELIOS devices allows you to assess the risk of connected damage in real time with hydrogen also for monitoring vehicle fuel tanks, turbines... in order to prevent Hydrogen Embrittlement phenomena in the Hydrogen economy. Clean hydrogen produced with renewable electricity is a zero-emission energy carrier, but is not yet cost-competitive, Letomec team is currently working to overcome the limits of the actual technologies improving efficiency of the alkaline electrolysis.



customer.service@letomec.com
letomec@pec.it

PRODUCTS PORTFOLIO

HELIOS 2



Hydrogen Permeation Tests according to EN ISO 17081:2014, ASTM G148-97 (2018) & EN10209:2014(2018).

HELIOS 3



Diffusible hydrogen content measurements according to the draft ASTM WK47776.

HELIOS 4



Measurement of hydrogen flux from a metallic surface for corrosion monitoring.

HELIOS 4HP



Measurement of diffusible hydrogen content on the in-service products. Avoiding the component cutting and the coating removal.

HELIOS MAGMA



Monitoring of furnace environment to maintain stable and under control the process.

INDUSTRY:

- Home appliance and Steelmakers for Home appliance industry: prevent the FISH-SCALE DEFECT;
- Galvanizing;
- R&D Applications.

INDUSTRY:

- Manufacturing of fasteners, bolts, nuts and springs;
- Welding industry;
- R&D Applications.

INDUSTRY:

- Corrosion monitoring in chemical and petrochemical industry;
- R&D Applications.

INDUSTRY:

- Automotive industry (PHSteels);
- R&D Applications.

INDUSTRY:

- Enameling furnace in Home appliance industry;
- Hot stamping furnace in Automotive industry;
- Carburizing furnace process

HELIOS

H.E.L.I.O.S. (Hydrogen Embrittlement Line Instruments and Operative Sensors)

can detect Hydrogen in materials, in order to ensure the structural safety in metallic components

PATENT N° EP2912452 B1

Italy, Sweden, Spain, Turkey, Netherlands, Ireland, France, Germany, United Kingdom, United States, Russia, Japan, India, China and Brazil.

INTERESTS AND MARKET GEOGRAPHIC AREA OF INTEREST

INTERESTS

Customers	Lender / Investor	Partner university	Business partners	Technical support figures
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

MARKET

GEOGRAPHIC AREA OF INTEREST

	Italy NORTH CENTER		Abroad EUROPE USA ASIA
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SALE CHANNELS

Directly	Large-scale retail channel	E-commerce	Agents
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>