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.

Company name: LETOMEC S.R.L.
Location: PISA (PI), Largo Padre Renzo Spadoni Snc, 56126
Fiscal and VAT code: 02025720505
Established: October 2011
Legal form: LIMITED LIABILITY COMPANY (LLC, SRL)
Internet site: https://letomec.com/
NACE Code: 74.9
Sector: Spinoff: Università di Pisa
PMI, Requirements for technological innovation: R&D, Qualified team and IP

Turnover Value
350 - 400 K

Subscribe 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 particularly, 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.

**Contact Information:**

- customer.service@letomec.com
- letomec@pec.it
PRODUCTS PORTFOLIO

**HELIOS 2**

**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

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<thead>
<tr>
<th></th>
<th>Customers</th>
<th>Lender / Investor</th>
<th>Partner university</th>
<th>Business partners</th>
<th>Technical support figures</th>
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### Market Geographic Area of Interest

**Italy**
- ABRUZZO
- BASILICATA
- CALABRIA
- CAMPANIA
- EMILIA-ROMAGNA
- FRIULI-VENEZIA GIULIA
- LAZIO

**Abroad**
- European Union
- Central and Eastern Europe
- Other European countries
- Northern Africa
- Western Africa
- Eastern Africa
- South Central Africa

### Sale Channels

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