

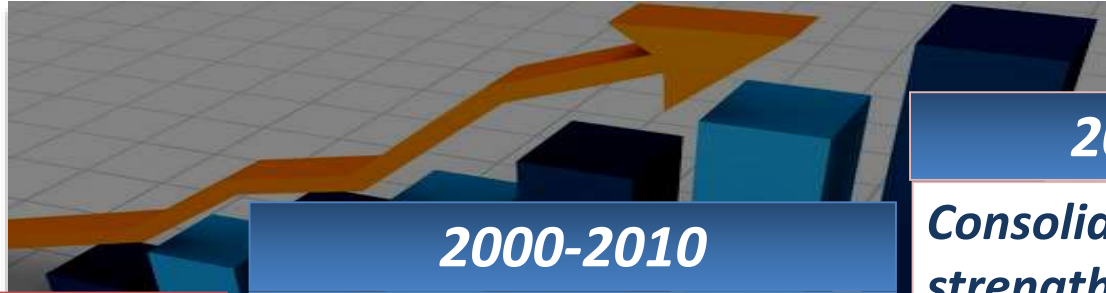


**Whatever is the product... when the tightness is a must
rely on testing to a specialist**



**Helium
Leaktest Machines**

lazzero
tecnologie
INDUSTRIAL LEAKTESTING SYSTEMS



1990-2000

Starting a new venture in the scenario of industrial leaktest, focused on the experience and knowledge of its founder

2000-2010

Completion of the corporate structure to compete in the national and international market, which ended with the environmental and quality certification

2010-2020

Consolidation and strengthening of the competitive position in the international market with a marketing strategy and production capacity suitable for new scenario

The Company LAZZERO Tecnologie

Evidence of care to the measures, **Lazzero Tecnologie**

- is an active **UNI member** (Italian Standard Organization)
Technical Commission U45 – Non Destructive Test, Relater in the Working Group U450006 Leak Test
- is long term partner with:
 - **INRIM** *Italian* National Metrology Institute
 - **LNE** *French* National Metrology Institute
 - **PTB** *German* National Metrology Institute
 - **Università degli studi di Trento** - Dipartimento di Fisica
 - **Università degli studi di CASSINO** - DiMSAT
 - **POLITECNICO di Torino** – Internat. Proj. and Develop. Cooperat.
- cooperates in training programs with:
 - **Università degli studi di Trento**
 - **AIV** **Associazione Italiana del Vuoto**
 - **CERMET Bologna** – Cermet Competence Center
 - **SiYang - JiangSu province, PRC.** – Technological Development Center

LAZZERO Technologie is a member of special projects:



The EMRP is jointly funded by the EMRP participating countries within EURAMET and the European Union

Qualified Partner

Innovative
Company
awards



IMPRESA
INNOVATIVE
TORINO



Quality System ISO 9001:2015



Environment ISO 14001:2015

Training Center



Personnel Certification ISO 9712 (UNI-EN 473)

Supplier Homologations (Automotive): DUNS 514031652

COMAU 215138 - Daimler 15311574 - Denso Thermal System 3350 - FCA 6456 - Ferrari 200562 - Magneti Marelli PCMA 4696 - Magneti Marelli Powertrain 112086 - RVI A08452 - VW 356556-00



We are based in CHIARI
15 km South-East from Torino



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The main activity is focused on the designing, manufacturing and servicing of industrial leak-test equipment based on Helium Mass Spectrometry

- **ORGANIZATION**
 - ✓ Technical Consulting Services
- **DESIGNING & PLANNING** (full internal strategic activities)
 - ✓ mechanic, 3D design
 - ✓ electronic and fluid circuits (Eplan, Spac Aut.)
 - ✓ Automation, software – HMI&SCADA
Siemens, Allen Bradley, Citect, Wonderware...
 - ✓ technical writing, risk analysis, documentation
 - ✓ Project management
- **MACHINE MANUFACTURING**
- **SERVICE**
 - ✓ Maintenance program and instant service
carried on with proper mechatronic engineers



Various lateral activities involve qualified LT's engineers and its internal laboratories

- **CALIBRATION & Test Leaks Manuftg.**

- ✓ Laboratory according **ISO17025**,
- ✓ Personnel certification **ISO9712 levels 2 and 3**



Manufacturing of
reference leaks &
Calibration service

- **LEAK TEST & LEAK MEASUREMENT**

- ✓ The internal laboratory offers in-house leakdetection service to test prototypes, samples, small batches etc;
- ✓ Certified technicians perform leakdetection test on-site.



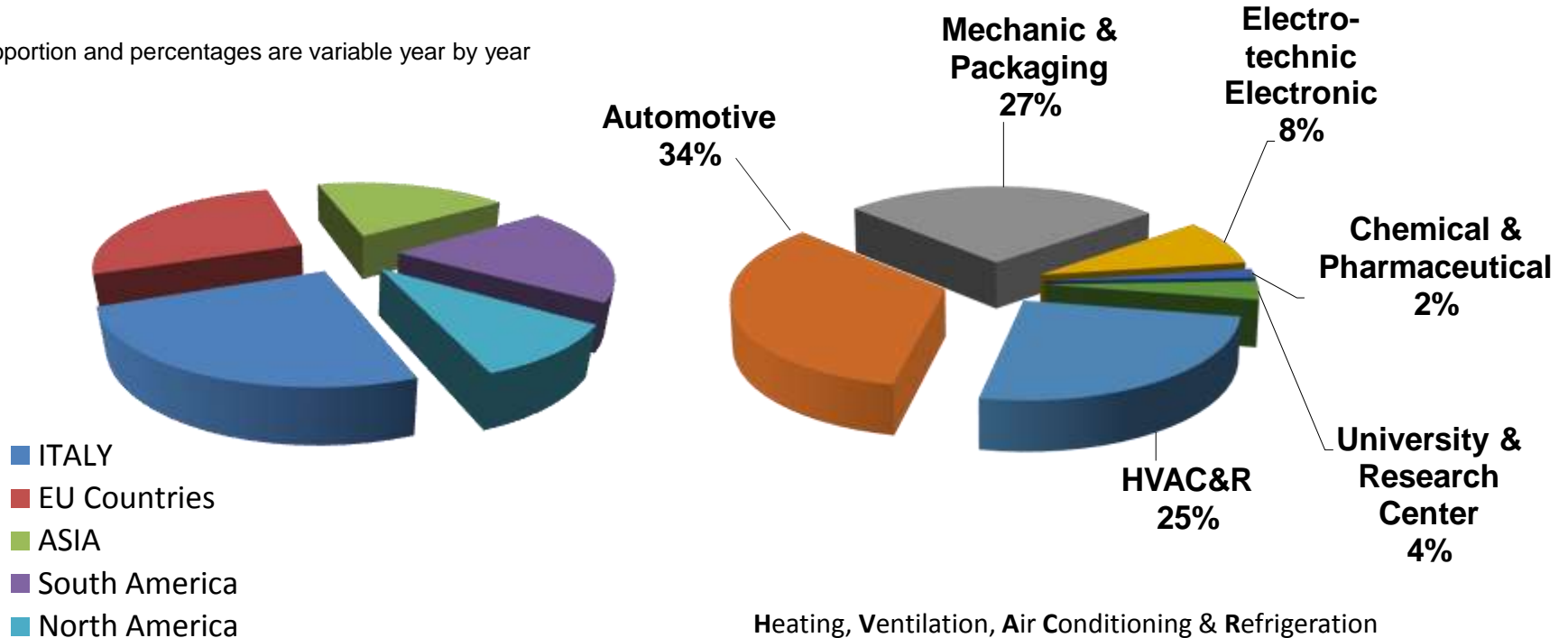
- **TRAINING**

- ✓ A dedicated and well organized classroom for Vacuum and Leaktesting training curse.
- ✓ Training activity for personnel certification (training centre for **RINA** in Non Destructive Test – Leakdetection)



Share Country/Sales - Sectors/Sales

Proportion and percentages are variable year by year



**Countries
with
presence of
LT machines**

Factory site
ITALY (since 1990)

**Local
Assistance
LT Partners**

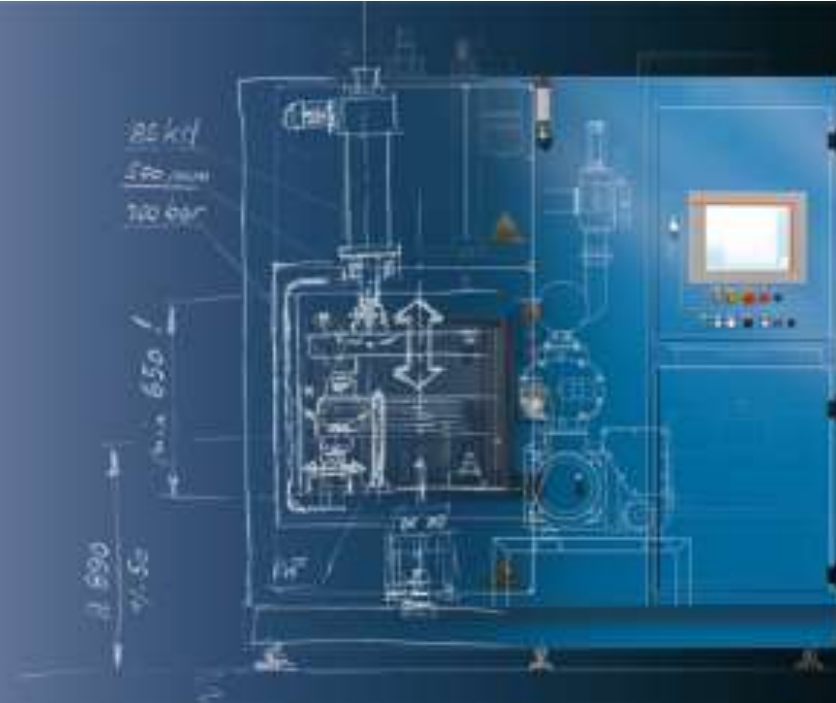
**China
India
Brazil
Turkey**



Austria
Azerbaijan
Brazil
Canada
China
Czech
Denmark
France
Germany
Hungary
India
Italy
Malaysia
Poland
Russia
Slovak
Slovenia
Spain
Sweden
Switzerland
Thailand
USA

This picture symbolically represents the path that is followed every time, starting from the demands and needs of the customer, through the study, the designing and finally the construction of the machine, so each product is unique and satisfies the requirements

From necessity...



...to the solution

Obviously each request represent a unique task:

- The product, for sure, but also...
- The productivity context, automation degree,
- Specific requests, standards to comply with, etc.
- ...and not the last, the economical availability

*They can be
simple
manual
machines*



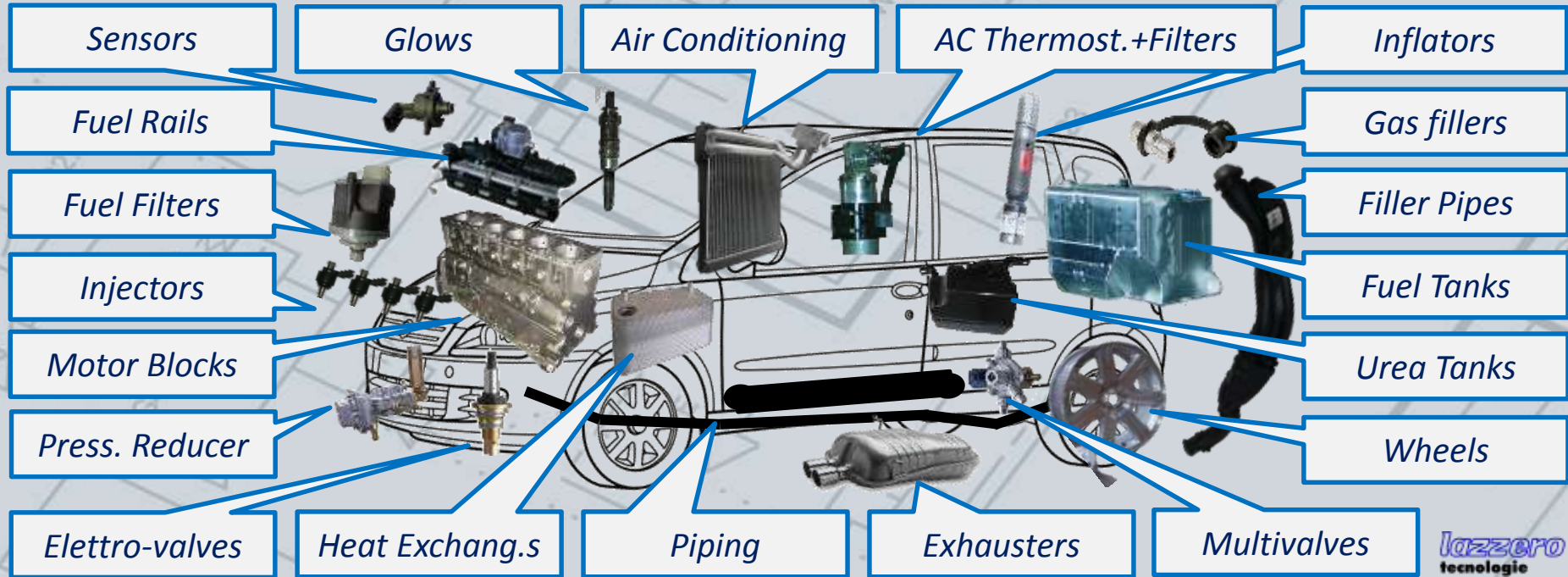
*Or
Semi-automatic
machines*



*Or complete lines or
Full-automatic
machines*



Special solutions for ***AUTOMOTIVE***



Fuel systems (injector, injector-rails, piping)

Assembly and testing of
high-pressure components



Tanks for Petrol and Urea, filler pipes, etc.







Test-gas Preparing & Recovery Systems



Helium or Test-gas Mix
Preparing & Recovery

Low,
Medium
High Pressure



System Components: Customized sealing tools



Servo-actuated sealing tools for quick and safe connections

- Customized tools
- Systems with double seals and intermediate vacuum for a secure sealing action



Special tools made to fit particular request

- Strong mechanical grip
- Excellent hermetical seal
- Protection of the terminal avoiding scrapes and damaging





Static and mobile oil treatment.

Complete solutions for degassing and de-hydrating, with accessories for dosing and filling oil



BURST TEST
Pressure up to
100 MPa
(1.000 bar)



**FUNCTIONS &
PERFORMANCE
TESTER for
REFRIGERATION
COMPRESSORS**



Thank you for the attention!

Our Engineers are available to share all necessary information

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for commercial issues
for metrological needs
for maintenance purposes