



Testing equipment that does everything you always wanted.

Manufacturers, research and technology centers all need the right kind of testing equipment, so that they can improve their understanding of the physical mechanisms involved in every system, in order to validate their design, in terms of innovation, efficiency and reliability.

- Complex and industrial fluid flows
- Two-phase flow
- Heat transfer
- Combustion, plasma
- Pressure drop
- Air or hydraulic circuits
- Prototype
- Physical model of industrial processes
- Metrology
- Automation and monitoring of measurements
- Controlled experimental enclosure

→ A experimental facility is necessary

- To develop your products or industrial processes.
- To test the technical feasibility of your designs.
- To characterize the performance of your new systems.
- To validate the reliability of a prototype or an industrial process.

→ Our works

- Enable you to test a system outside its operating environment.
- Help you to define your requirements in terms of experimental facility.
- Provide you with support in the design, modernization and updating of your research and development tools.
- Guarantee you a functional and ergonomic experimental facility.
- Provide you with a turnkey service (installation and maintenance, technical assistance, training).

→ Our services

- Test equipment project management.
- Test equipment engineering.
 - > Dimensioning and conceptual design.
 - > Writing operating procedures, safety procedures, standardization documents, etc.
- Design and production of made-to-measure modular, adaptable experimental facility.
 - > Assembly and tests.
 - > Metrology integration.
 - > Interfacing, automation and monitoring of measurements.
- Installation on site or in our premises.
- Start-up.
- Certification.
- Supply of technical documentation.
- Training.
- Maintenance.



→ Our facilities

- CAO software (CATIA).
- Numerical simulation software (AMESim, ANSYS, OpenFoam, etc.).
- Fully-equipped test rooms (compressed air, storage, gas supplies, climate control, furnace, etc.).
- ISO8 clean room for testing in a controlled atmosphere.

→ Some examples:

- Urea injection experimental facility for a car exhaust pipe.
- Wind tunnel with an air flow (5000 m³/h --> -50 °C).
- Pressure drop experimental facility for an exhaust and inlet pipe (600 kg/h).
- Heavy fuel injection experimental facility (110 °C - 100 bars - 1200 kg/h).
- Experimental facility for studying the biochemical decontamination of fluid by athermal plasma.
- Experimental facility for testing the thermal and mechanical strength of a car radiator (5 bars - 150 °C).
- High pressure chamber for diesel injection (60 bars - 600 °C).
- Air flow physical model of a glass fiber manufacturing process (400 m³/h).
- High-flow aerothermal experimental facility for aeronautical tests (2160 kg/h – 20 --> 100 bars - 300 °C).



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