

Laboratories and Men

up to your
Innovations



INDUSTRIAL TESTING &
METROLOGY LABORATORIES

The MECASEM group:

**over 30 years' experience,
a wide range of solutions**

- Certification policy rooted in our corporate culture
- Professional and high-quality service
- Short lead time
- Customised quotes
- Highly skilled teams



Industrial testing laboratories

- **Mechanical and fatigue testing**

Tensile testing (testing to ISO 6892-1 Methods A & B), compression testing, bend testing, Charpy impact testing, fracture mechanics, fatigue testing, experimental stress analysis on ferrous, non-ferrous and composite materials

Capabilities: 5 N to 3000 kN

Temperature: -269°C to +1000°C

- **Endurance testing**

Physical characterisation of various parts, opening and closing endurance testing, clipping testing, egress/ingress testing (robot, 2 or 3-axis test benches), vibration testing, testing according to your specifications

- **Metallographic testing and chemical analysis**

Metallographic analysis, industrial corrosion testing, hardness testing, laboratory and onsite chemical analysis

- **Climatic and weathering testing, heat treatment**

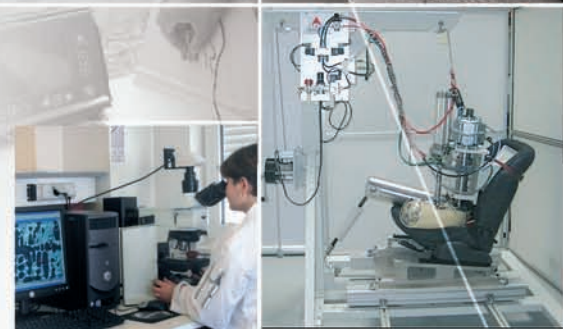
Set of climatic chambers (hot, cold, humidity), combined cycles, corrosion testing in saline atmosphere (salt spray), stress corrosion cracking testing, corrosion in acid environments testing, testing in gas-filled environments (H₂S, SO₂ or both), Kesternich testing, Bac Ford-Bath testing
solution-annealing and stress relieving heat treatment

- **Non-Destructive Testing by COFREND, COSAC and ASNT skilled technicians.**

Laboratory and onsite testing: radiographic testing, magnetic particle inspection, penetrant survey, ultrasonic testing, thickness measurement

**Designing and machining of test structures and specific interfaces.
Testing on samples and whole parts. Integrated machine shop**

Industrial testing
Metrology



Metrology laboratories

- **Laboratory and onsite verification/calibration**

dimensional metrology
time-frequency, pressure, torque
temperature (thermometers, sensors, PT100, thermocouples)
hygrometry
characterisation of chambers (thermostatic, climatic, salt spray, furnaces, baths)
flow metering (gas and liquid), anemometry
balances, masses
welding equipment
electrical metrology (high and low tension)

- **Laboratory and onsite metrology and force measurement up to 3000 kN for tensile machines and 5000 kN for compression machines** (force machines, extensometers, hardness testing machines, bend testing machines, dynamometers...)

Alignment, displacement and speed verification
In compliance with ISO and ASTM standards

- **2D and 3D control, surface roughness. Verification, calibration and overhaul of 3D machines**

- **Repair, maintenance of measuring instruments, sales of measuring instruments and metrology equipment**

For more than 30 years, the family-owned MECASEM group has been based on a strong dynamic of expansion, a sharp technical know-how and a quality management system rooted in its corporate culture to establish as a leading industrial testing and measuring laboratory. The group gives quality and reliability the highest priority in the through execution of all its business activities. Therefore MECASEM provides a wide range of solutions NadCap, NF ISO/CEI 17025 (COFRAC) accredited and EN9100 and ISO9001 certified.

To assure a timely responsive service, our laboratories are located in the heart of major industrial areas in France and Germany.



NF ISO/CEI 17025 accredited laboratories,
scopes available on www.cofrac.fr



EN 9100 and ISO 9001
certified laboratories



Scope available
on www.mecasem.com



The American Society for
Nondestructive Testing



Aerospace Sectorial Certification
Committee



French Non-Destructive
Tests Confederation

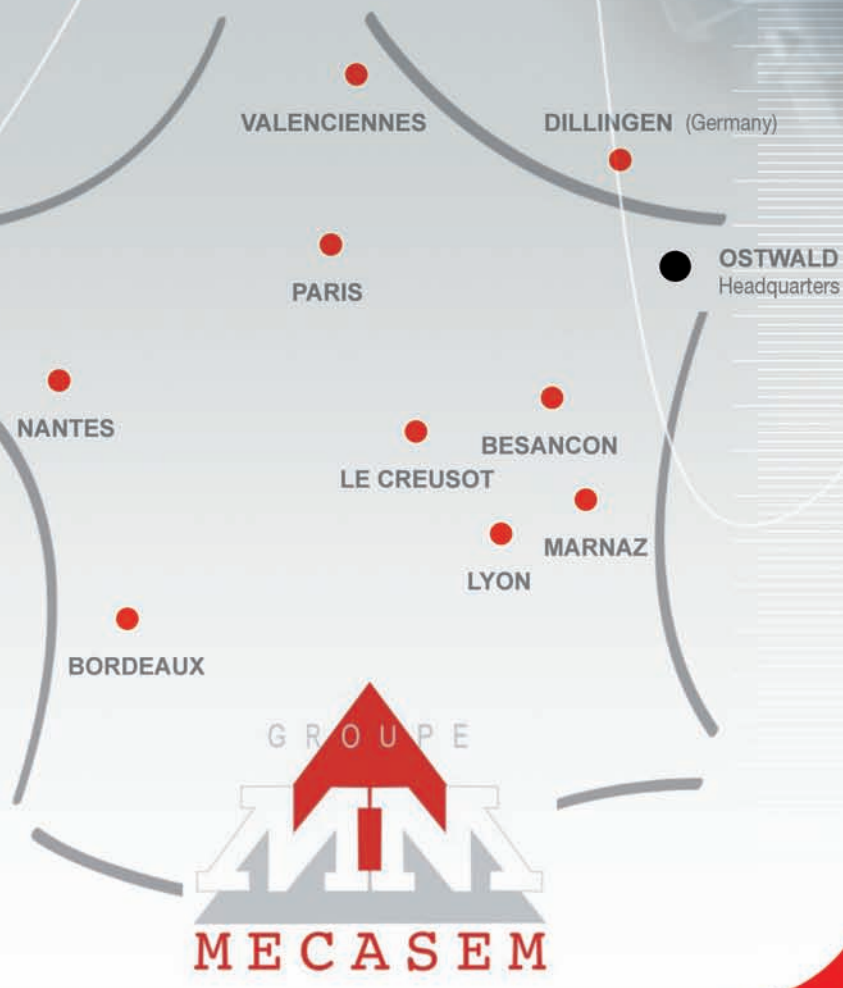


Taking it further: our customised services



- MECASEM extranet to manage online your measuring instruments
- Secured customer's area dedicated to your reports and certificates
- Electronic signature for your reports and certificates
- MECASEM training center: catalogue and custom-made training

- Specially equipped vehicles for onsite metrology
- MECASEM shuttle service for your measuring instruments and testing parts



GROUPE MECASEM

Headquarters

90 rue de Lingolsheim - BP 47
F-67542 OSTWALD cedex - FRANCE

Phone: +33 (0)3 88 66 66 76

Fax: +33 (0)3 88 66 70 69

E-mail: info@mecasem.com

