



FLOXLAB — ENGINEERING EXCELLENCE SINCE 2013

Company Profile

Your supplier of high-pressure laboratory instruments and advanced geotechnical testing equipment

ROCK MECHANICS

RESERVOIR STIMULATION

HIGH-PRESSURE PUMPS

WHO WE ARE

FLOXLAB

Engineering firm based in the Paris region, specialised in the design and manufacture of high-pressure laboratory instruments and advanced geotechnical testing equipment.

- Engineering firm based in the Paris region
- Specialised in high-pressure equipment design & manufacturing
- In-house mechanical, electrical and software engineering
- Worldwide references across research labs and industry
- Custom solutions tailored to specific testing requirements



FLOXLAB Headquarters — Nanterre, France

30+

Years of expertise

Worldwide

Customer references

100%

Custom engineering

Our Expertise

Integrated engineering capabilities from concept to commissioning

01

Mechanical Design

In-house mechanical engineering for pressure vessels, load frames and high-pressure fluid systems — fully customisable for specific operating conditions.

02

Hydraulic & Fluid Systems

Expert design of servo-controlled hydraulic and pneumatic circuits, syringe pumps and back-pressure regulators for precise flow and pressure control.

03

Control & Acquisition

Integrated electronic instrumentation, PID servo-control and multi-channel data acquisition — calibrated and validated on each delivered system.

04

Application Software

User-friendly supervision interface with synoptic displays, automated test sequences, real-time monitoring and standardised reporting.

DESIGN → MANUFACTURING → COMMISSIONING → TRAINING & AFTER-SALES SUPPORT

Product Lines

Three complementary families covering all high-pressure laboratory needs

01 ROCK MECHANICS



Specimen prep & testing

- Specimen preparation tools
- Rock testers
- Load-frame triaxial systems
- Pump-actuated triaxial systems
- Triaxial cells and fixtures

02 RESERVOIR STIMULATION



Fracturing & conductivity

- Proppant conductivity systems
- Hydraulic fracture test systems
- Acid fracture conductivity
- Proppant test cells

03 HIGH-PRESSURE PUMPS



Flow & pressure control

- High-pressure syringe pumps
- Continuous-flow pumps
- Automated pressure controllers
- Automated valves

Flagship Systems

A complete testing ecosystem for laboratories and research centers worldwide

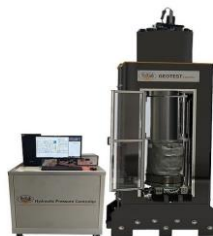
CORE PREPARATION TOOLS



Specimen preparation

Precise cutting of rock specimens to specific dimensions for mechanical testing programs.

GEOTEST EXPRESS



Automated rock compression testing

Perform triaxial compression tests under both static and dynamic conditions.

PROPPANT CONDUCTIVITY SYSTEM



Short-term proppant pack conductivity

Evaluate the performance of hydraulic fracturing proppants under realistic downhole conditions.

SYRINGE PUMP



High-pressure injection pump

Ultra-precise, pulse-free fluid flow control under high pressure with flexible operating modes.

COMPLETE PORTFOLIO: Specimen preparation · Rock testers · Triaxial systems · Proppant test system · Pumps · Valves

Our Commitments

Values that drive the Floxlab engineering experience

01

QUALITY

Built to last

- In-house design & manufacturing
- Rigorous pressure testing
- Certified components
- Traceable calibration

02

CUSTOMISATION

Your project, our expertise

- Tailored specifications
- Special pressure & temperature ranges
- Hastelloy / Inconel options
- Custom test modules

03

SUPPORT

Long-term partnership

- On-site commissioning & training
- Remote technical support
- Software updates
- Spare parts & refurbishing

"We don't just sell equipment — we engineer solutions and support them throughout their lifecycle."

Worldwide References

FloXlab systems operate in research laboratories and industry across five continents

EUROPE • AMERICAS • ASIA • MIDDLE EAST • AFRICA

KEY INDUSTRIES

Oil & gas reservoir research

Core analysis, formation evaluation

Mining & tunneling engineering

Rock strength, ground stability

Geothermal energy development

Thermal and mechanical characterisation

Carbon storage (CCS/CCUS)

Sealing and injection studies

Civil engineering

Foundation design, slope stability

CUSTOMER PROFILES

University research laboratories

Rock mechanics & petrophysics studies

National research institutes

Public science programs

Oil company R&D centers

Reservoir & stimulation research

Service companies & core analysis

Commercial testing laboratories

Government & geological surveys

Regulatory and mapping agencies

GET IN TOUCH

Let's discuss how FloXlab can support your testing programs

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SCAN ME



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