

Endurance testing

Multifunctional endurance testing for mechanisms and machines including mechanical, hydraulic, pneumatic, electric and electronic durability tests



Before launching a product to market, its endurance and resistance should be tested, both in standard and extreme operating conditions, simulating the product's expected life cycle. This will guarantee the quality and final reliability of the mechanism or machine.

Our solution

Applus+ Laboratories offers a multifunctional endurance testing service to evaluate the mechanical, hydraulic, pneumatic, electric and electronic durability of mechanisms and machines.

Our engineering team develops customized test benches to perform the endurance tests according to standard or client specifications (UNE-EN, ISO, MIL-STD, NFPA, etc.). Testing performed following ISO 17025 quality requirements.

Our service includes:

- Test specifications design
- Test bench design and manufacture
- Testing execution and monitoring (including online test monitoring)
- Data logging, result analysis and interpretation
- Test report issuing
- Failure analysis

Our testing capabilities cover:



- Flow rate characterization
- Resistance to internal and external pressure
- Mechanical strength and fatigue
- Life cycle analysis
- Behavior under extreme conditions
- Reliability and accuracy testing

We have extensive experience working for various industrial sectors:

- Naval, aeronautics and defense
- Automotive and rail
- Energy services
- Water and gas distribution
- Capital goods and industrial machinery

Benefits

- Applus+, one-stop-shop for all your product's testing needs
- Access to multi-industry expertise
- Speed up the product's time-to-market by shortening the testing times