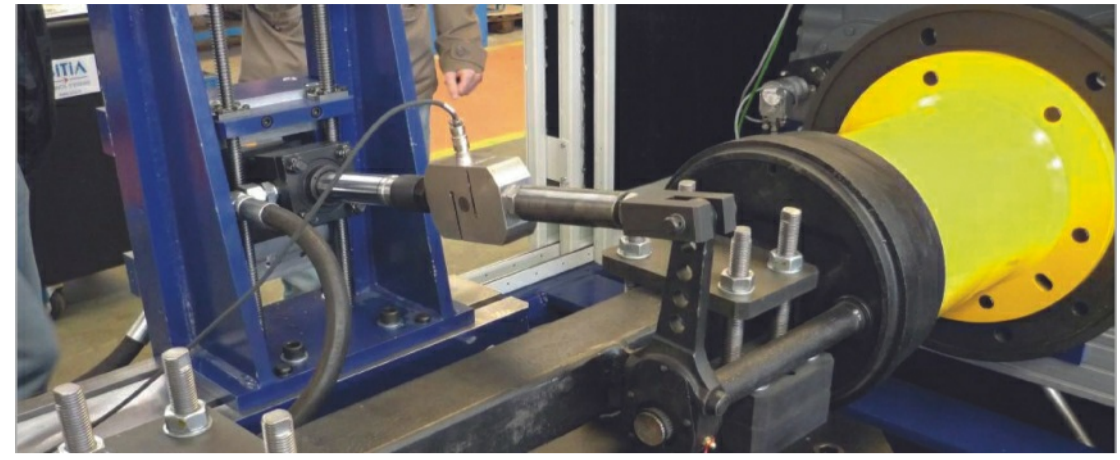


TEST & TEST BENCH ENGINEERING

Customized test engineering focused on assessing and improving the **performance of systems**



Your expectations

You want to :

- **Stand out** from your competitors
- **Reduce** your product validation costs by identifying improvements and optimizations
- **Accelerate** the development of new products by carrying out validation and qualification tests to guarantee their marketability
- **Improve** quality through rigorous testing and in-depth analysis, or in the event of system failures
- **Ensure** product safety by testing compliance with safety standards and identifying potential risks
- **Conquer** new markets by providing reliable data and results that reinforce customer confidence in your products

Our solutions

We offer test engineering services with customized support:

- Needs **analysis** & drafting of specifications :
 - Understanding phenomena
 - Optimized design of test equipment
 - Experimental design definition
 - Recommendation(s)
- **Design** of a 3D bench concept: Multiphysics contract bench
- **Production** of the parts required to build your test bench:
 - Machined,
 - Mechanically welded,
 - Additive manufacturing,
 - Sheet metal...
- **Assembly with specialized fitters:**
 - Bench adjustment/alignment
 - Piping
- **Setting up your test bench:**
 - Control --> Force & displacement, flow, pressure, temperature, speed - internal control programming
- **Tests:**
 - Fluidics, hydraulics in various media, static, dynamic (single or multi-axis) with simple or complex kinematics
- **Measurements:**
 - Displacements (with and without contact), deformations, temperatures, pressures, speeds, flows, leaks

- **Formatting and interpretation of results**
- **Additional services, including post-testing:**
 - Metallurgical studies of fractures,
 - Verification of the presence of post-DNC damage,
 - Re-design following damage.

Your benefits

- Technical expertise backed by almost 60 years' experience
- Convenience through personalized support
- A network of university/academic and industrial partners (Cetim holds the Institut Carnot accreditation)
- Expert support for the development process
- Access to unique, cutting-edge R&D resources
- Access to cutting-edge technologies
- Support in certification and standardization

With access to state-of-the-art equipment and a flexible approach, Cetim guarantees high-quality services, compliance with standards and specialized expertise. Through close collaboration and continuous technological monitoring, Cetim supports its customers in their success and contributes to their market development



Question and Answer Service
contact@cetim.fr www.cetim.fr

