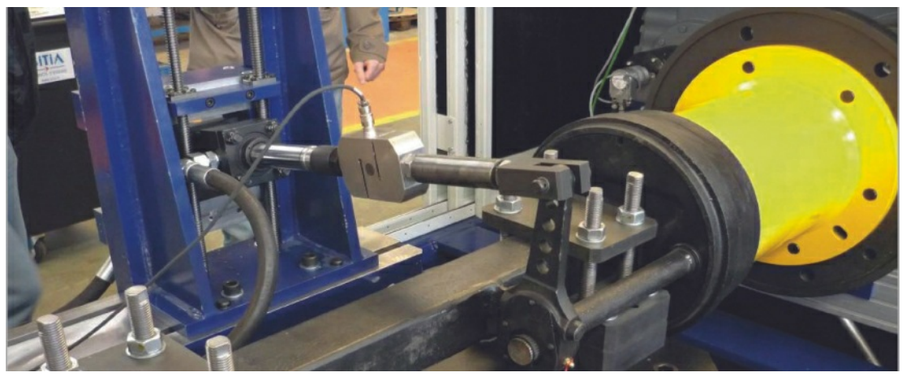
Cetim's services

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...
- **Assemblywith 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

CONTACT

Question and Answer Service

contact@cetim.fr **www.cetim.fr**

- **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

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