

OPTIMISING THE QUALITY OF YOUR FORGED AND CAST PARTS



Quality at the good level, from raw part to finished product

Your expectations

You are a manufacturer or purchaser of forged or cast parts (steel, aluminium, copper alloys, titanium, etc.) and you are faced with a non-compliance issue at the development stage (initial samples, prototype parts) or during production.

You want to:

- **Guarantee a level of quality** that complies with the specifications and remains consistent over time
- Identify the production parameters (alloy, mould, process, control) **that impact the quality of your parts**
- Implement relevant action plans to ensure **the stability of your deliveries**

Our solutions

To assist you in your component quality management, we can get involved at several levels:

- Technical on-site (yours or your suppliers) audit to accurately diagnose the root causes of non-quality (alloy, mould, process, control) and propose quality improvement plans (forging, foundry) going from development to on-site deployment support,
- Simulation of the forging process (Forge[®] NXT) or casting process (QuikCAST / ProCAST / Thercast[®]) to optimize the couple of product/process, reduce the prototyping and development phases or resolve a quality issue during production,
- [Automated production control](#)
- [Failure analysis of your casted or forged parts \(material shrinkage, shrinkage cavities, porosity, etc.\)](#) and guidance on analyzing the most probable causes, in relation to your manufacturing process
- Cetim Academy[®] training, inter-company and tailor-made, [covering processes](#), [tools](#), [metallurgy](#) and [defects](#)

Your benefits

Cetim provides you with multidisciplinary teams, giving you access to:

- in-depth knowledge of forging and casting processes
- expertise in alloys (steel, aluminium, cast iron, etc.) and molding materials/products, core making
- process simulation tools and a mastery of methodological problem-solving tools



You also have access to an impartial external perspective.



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

