

# 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, etc.) and you want **to guarantee a sustainable level of quality** that **complies** with technical specifications

## 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.