

CREATEC offers comprehensive technical and technological consulting services for forging shops and stamping shops. The cooperation starts with a technological audit during which we identify the strengths and weaknesses of the production process or technology. We treat each issue individually and support our analyses with specialist knowledge in the field of material engineering, metallurgy, advanced manufacturing techniques and metrology. The effects of the audit are proposals for changes in technology aimed at improving the efficiency of the existing production process or a new technology design to enable the production of new or significantly improved products. Projects are implemented on commercial terms or with the support of funds from, for example, the National Centre for Research and Development. We also provide specialized and dedicated services for forging shops and sheet-metal processing companies using the stamping processes.


Expert appraisements
Technological audit
Customized training and courses

Thanks to our industry-specific experience and the knowledge of the needs of the forging industry and the companies specializing in sheet-metal/metal-strip processing, we are convinced that it is necessary to offer specialized services for the above-mentioned industry sectors to enable the verification of the technology or the product.

We are perfectly prepared to implement complex projects and prepare analyses and expert opinions using optical systems, including 3D scanning, reverse engineering methods, thermovision, computer-aided processes and various types of tests of material properties.


Machines and devices analysis

- analysis of stiffness of presses and hammers,
- analysis of the temperature distribution in the chambers of furnaces or heating systems,
- identification of noise and vibration levels,
- failure prediction systems.

3D scanning & reverse engineering

- control of the shape and dimensions of products,
- analysis of deformation and displacement fields,
- control of tools and tooling wear,
- virtual matrix assemblies,
- creating of the CAD models based on analysis of the real part.

Computer-aided analysis of industrial processes

- tooling design,
- numerical simulations,
- quality control by vision systems,
- expert systems,
- Big Data analysis.

Mechanical properties analysis

- mechanical properties,
- physical properties,
- fatigue properties,
- micro- and macrostructure.

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