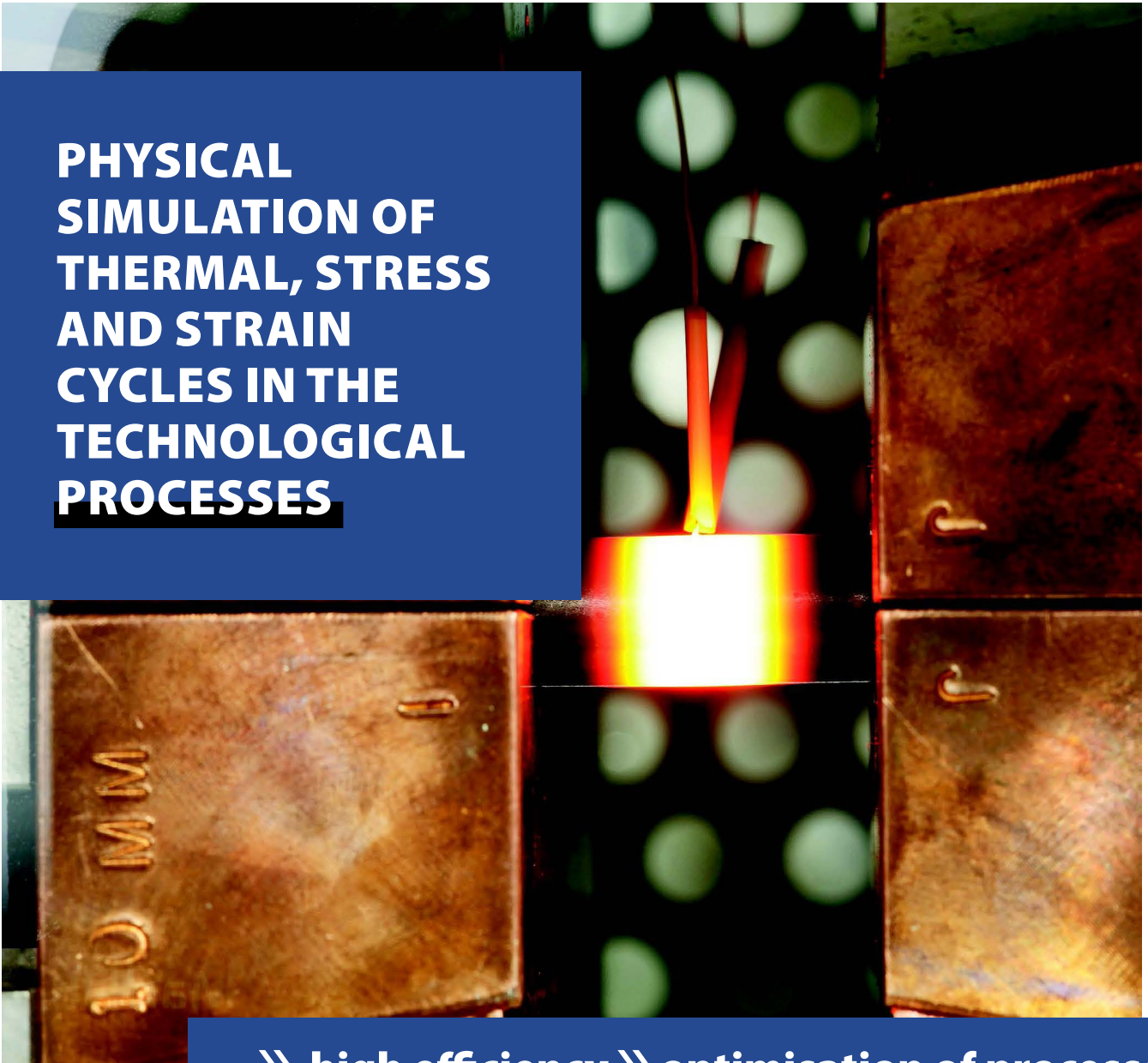
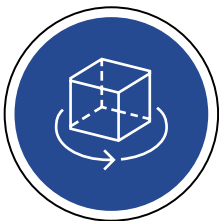


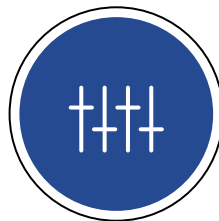
PHYSICAL SIMULATION OF THERMAL, STRESS AND STRAIN CYCLES IN THE TECHNOLOGICAL PROCESSES



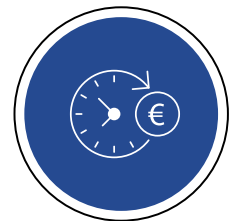
» high efficiency » optimisation of processes
» maximum accuracy » evincible savings



Capability to **simulate the processes** with a real result



Determination of technological parameters of the following processes: **welding, casting, forging**



The processes which are **saving the time and costs** are getting more efficient.

Our specialists make use of the unique equipment type Gleeble 3800, developed by the Dynamic Systems Inc. (USA) for simulation of processes and testing of materials.

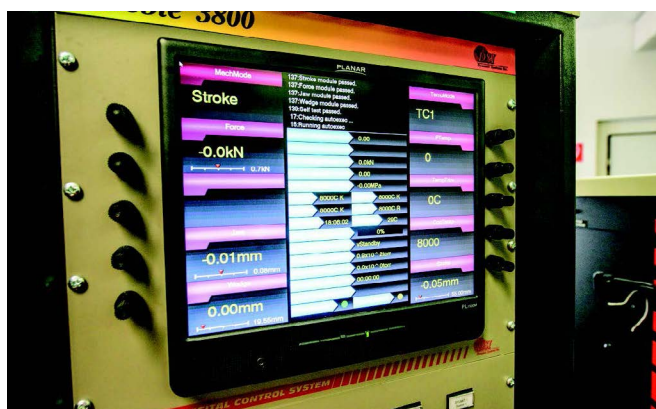


SIMULATION OF PROCESSES FOR TREATMENT OF MATERIALS

- » Continual casting
- » Hot rolling
- » Forging
- » Extrusion
- » Simulation of the heat affected zone
- » Diffusion bonding
- » Continual annealing of the flat specimens
- » Heat treatment
- » Powder metallurgy/sintering
- » Synthesis (SHS)

TESTING OF MATERIALS

- » Hot pressure tests
- » Curve of stress-strain dependence
- » Zero strength test
- » Hot tensile test
- » Thermal cycle
- » Dilatometry/phase transformations
- » Heating and cooling down
- » Fatigue



Physical simulator type Gleeble 3800 and Hydrowedge II module Research institute



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