Institut für
Integrierte Produktion Hannover

# Design and testing of forming processes

## Your challenge

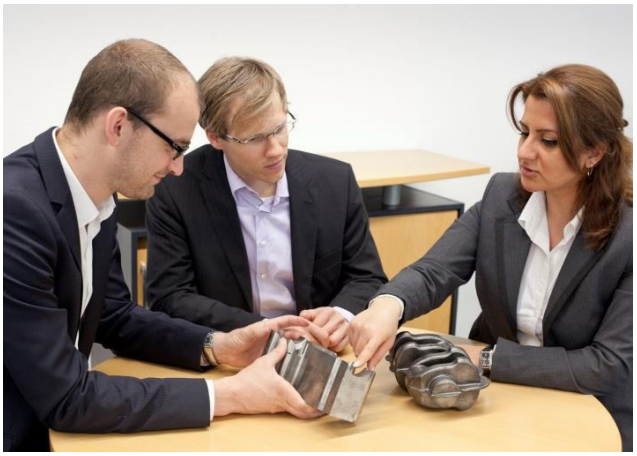
The production of your forming parts is material-intensive? Errors occur during forming, such as cracks? You want to investigate the formability of a new material? The manufacturing of preforms using an alternative forming process, such as cross wedge rolling, is of interest to you? You have no experience with forming processes, but want to make a component by means of forming? Then we would be happy to support you in the design and testing of respective forming processes.

## Your benefits

- Saving material
- Reduction of forming defects
- Reduction of process chains
- Comparison of the technical feasibility of alternative forming methods
- Comparison of the cost effectiveness of alternative forming methods

## Our service

- Specification of requirements and definition of objectives with identification of suitable forming processes, determination of materials
- Analysis of the current forming process
- FEM simulation of the flow of materials, such as the layout of the sequence of stages or the rolling process
- Construction and production of forming tools
- Assembly of the shaping elements with other tool components and function tests
- Planning and implementation of forming tests, such as forging, cross wedge rolling on our flat die apparatus or hydro forming in our hydraulic press
- Analysis and evaluation of the forming results with subsequent economic analysis



## Our commitment to quality

- Consideration of current research results
- Easy transferability of the results to your systems and processes
- Use of modern software with current methods of calculation
- Systematic and reproducible testing methods
- Reliable and competent evaluation and recording of all relevant results

## Your contact person

We would be happy to make you a customized quote.
Just contact us!

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For further information about our services in forming technology, please visit:

www.iph-hannover.de/en/services/forming-technology