



**ANSYS**

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# ENGINEERING SIMULATIONS *BY SMED*



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engineering BH

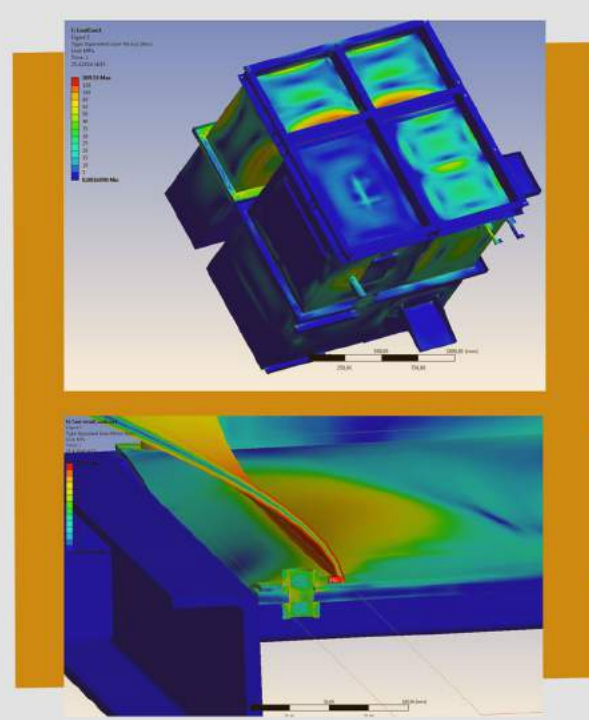
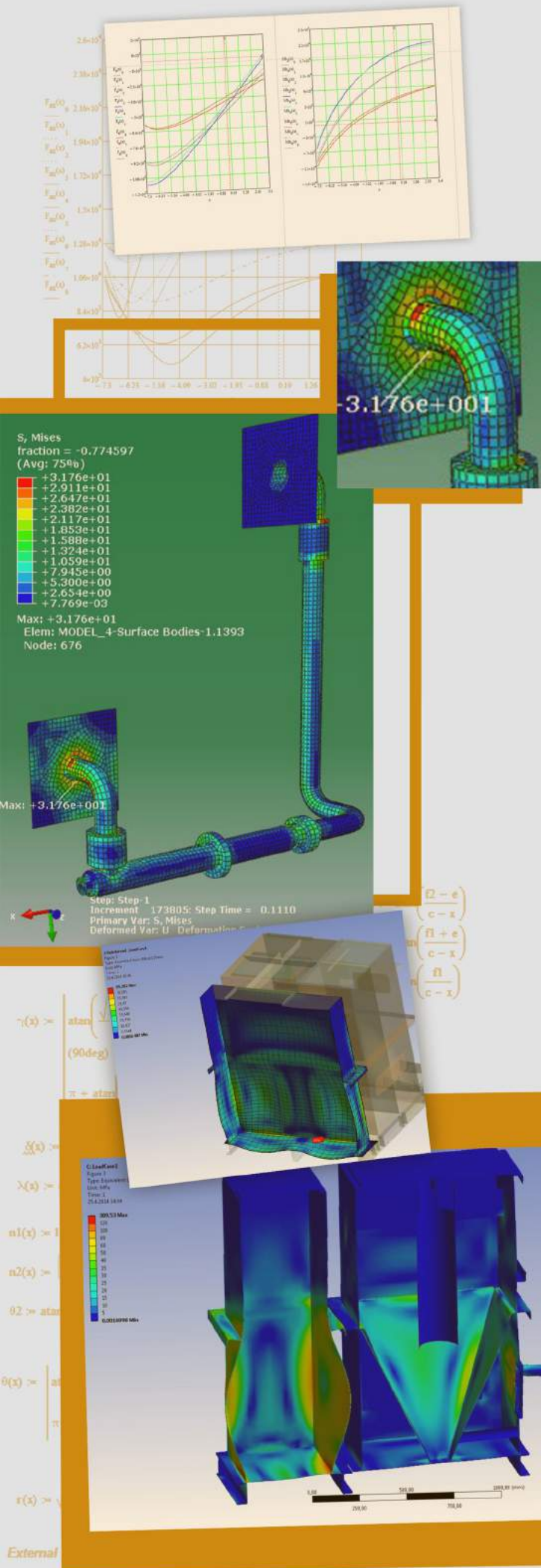


# ENGINEERING SIMULATIONS

With new competitors in product development seeming to spring up overnight and the volatile economy, there are pressures to cut costs wherever possible. As a result, product designs have become much more complex with added features, smaller sizing, new materials, cost-cutting production processes and other innovations. Product integrity has never been as essential to the design process as it is in today's hypercompetitive and inter-connected business environment.

A traditional design approach would require numerous full-scale prototypes, each tested for failure points – a very expensive and time-consuming process. It might take several years for a team to develop a workable design and engineers would have to settle for the first one that meets minimum requirements rather than aiming to optimize the design.

Given the nature of certain products and their working environment, on-site physical testing is often too expensive or dangerous and, in many cases, simply impossible.





We offer our customers a different approach. By using ANSYS Mechanical Simulation Software to develop virtual prototypes while evaluating alternative designs, we can help you cut costs and enhance performance, all at the same time.

## SMED'S DESIGN TEAM OFFERS THE FOLLOWING FEA/CAE SERVICES:

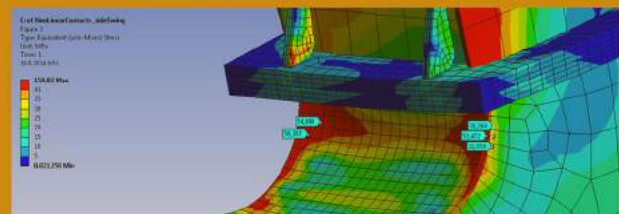
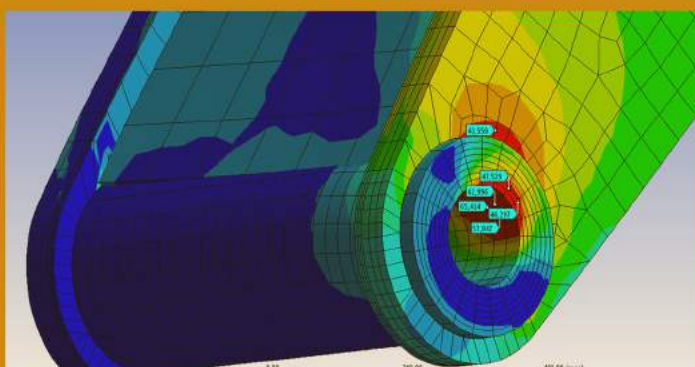
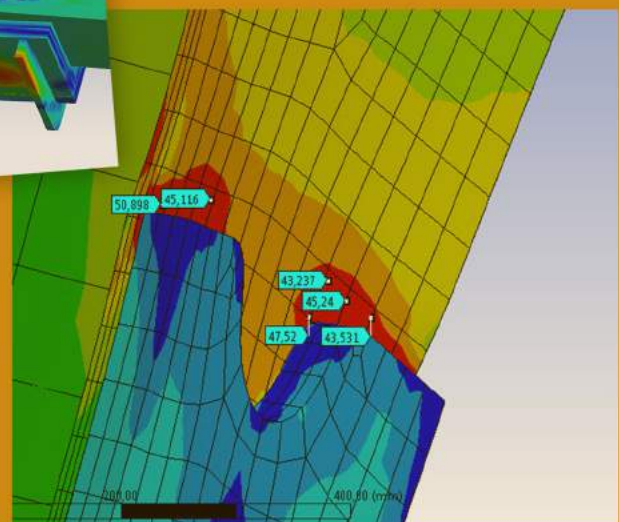
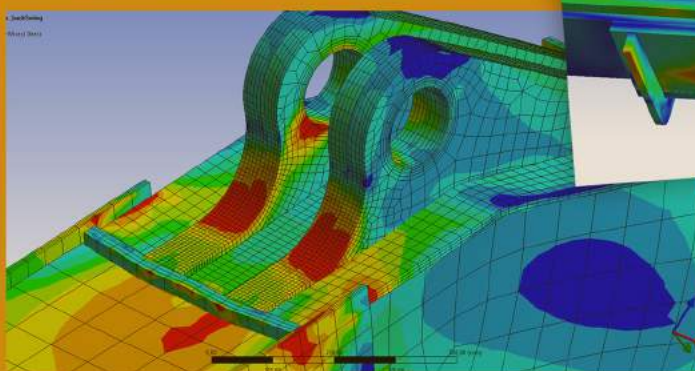
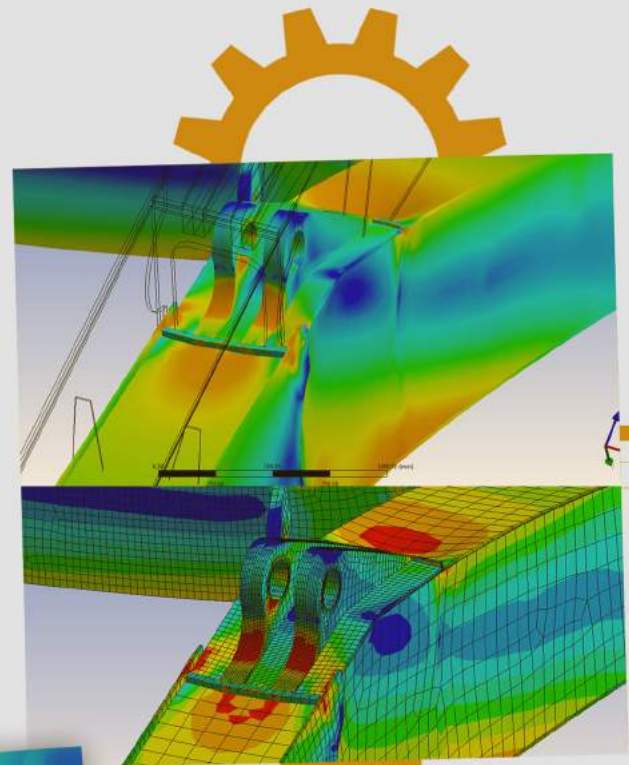
FEA/CAE Services:

- Static Analysis
- Dynamic Analysis – Implicit/Explicit (Modal, Harmonic, Transient, etc.)
- Thermal Analysis
- Fatigue Analysis
- Computational Fluid Dynamics Analysis

With ANSYS we can carry out advanced engineering analyses quickly, safely and effectively through the use of contact algorithms, time-based loading features and nonlinear material models. By using the ANSYS Workbench platform we can integrate simulation technologies and parametric CAD systems with unique automation applications and functions. By combining the power of ANSYS solver algorithms with our years of experience in design and production, we can verify or improve your design in a virtual environment.

## ENGINEERING SIMULATIONS

The Smed Design Department creates virtual prototypes which help customers explore many design alternatives before an actual physical prototype is produced. This approach allows us to improve designs while also enhancing their quality. Smed aprototypes help demonstrate how a product will work once operational and present both the aesthetic features and functionality of a design. This process helps Smed designers predict and avoid possible weaknesses in the structure of a product, thus minimizing the risk of flawed designs.





## CONTACT

**Smed Engineering AS**  
Norway  
Torgardsvegen 12  
7093 Tiller

**Phone:**  
+47 73 80 79 10

**Fax:**  
+47 73807911

**Mobile:**  
+47 481 04 132  
+47 957 73 442

**e-mail:**  
firmapost@smedeng.no

**Smed Engineering BH doo**  
Bosnia and Herzegovina  
Obala Kulina bana 4  
71000 Sarajevo

**Phone:**  
+387 33 267 136

**e-mail:**  
kontor.bh@smedeng.no

INTERA Technology Park  
Bišće Polje BB  
88000 Mostar

**Phone:**  
+387 36 352 602 (603)

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Product Development*

