

# Techtank Conference

Stamping and Forming Centre

RISE Olofström

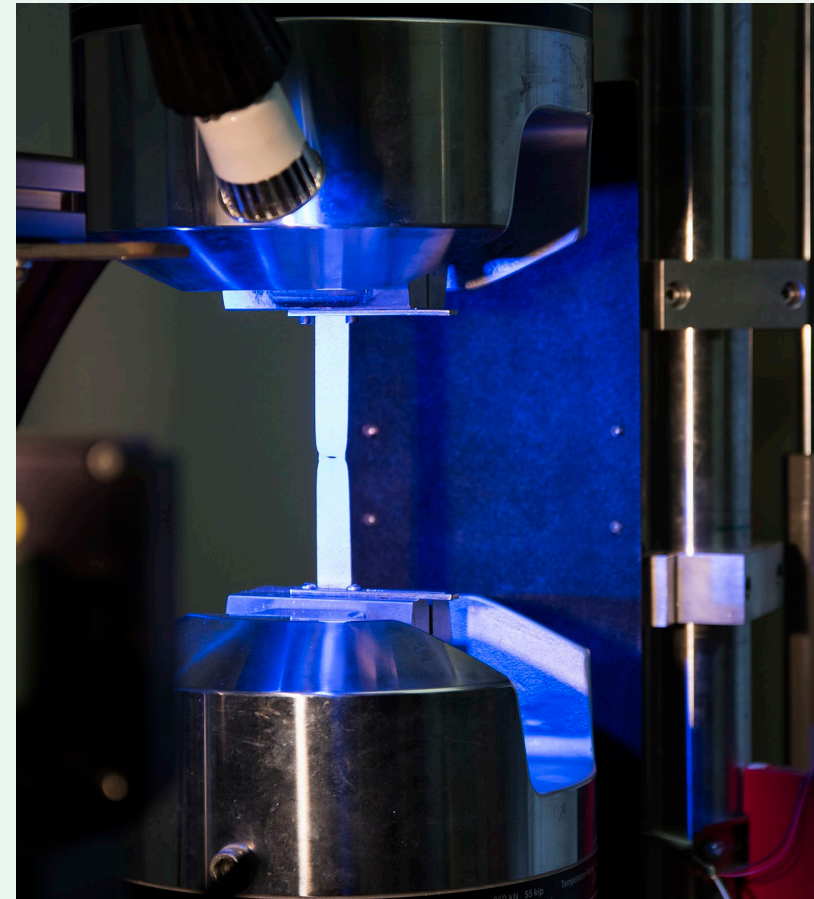
# Example of Project

We have the possibility to help clients to do shorter projects where we can do material- or forming tests. It could for example be tensile tests to measure material properties which can be compared to the supplier specifications or to compare between two materials and batches.

## *Client example*

- *We performed tensile tests for a client to compare the data to the supplier specifications. The goal was to be able to reclaim the material because of the arise of cracks during the forming process.*
- *The measurements showed that the material properties in fact was within the specifications and therefore approved. However, with the help of further analysis using a DIC-system to see local deformations we were able to discover a rare physical behavior called serrated yielding which can cause problems during a forming process. This information was then shared with the client and the material supplier.*

This is a fast and cost-effective way to get help with a production problem. We can also help with prototyping new forming tools and test methods. Do you have other challengers that you need help investigating you can always contact us!



Tensile test using ARAMIS™ DIC-system

Example of research project

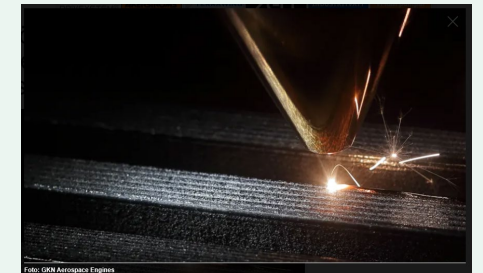
# Development of hot-forming method

- Design and manufacturing of tool for hotforming of titanium components that was enforced using additive manufacturing (AM).
- The projects aim was to strengthen SME in Blekinge and nurse new buisnessopportunities within the aorspace industry.
- The project was performed together with the testbedd LIGHTest. The project resulted in prototypes that was manufactured within formtolerances and generated multiple new projects were Rydverken contribute!



"Participation in this project has given us new knowledge and multiple new cooperative projects together with GKN!"

Urban Paulsson,  
CEO Rydverken AB



## ABOUT THE PROJECT

*RISE roll: Projectmanagement, simulations of the formingprocess, physical formningtests of prototypes*

*Partners: Rydverken AB & GKN Aerospace Sweden AB*

# Contacts

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