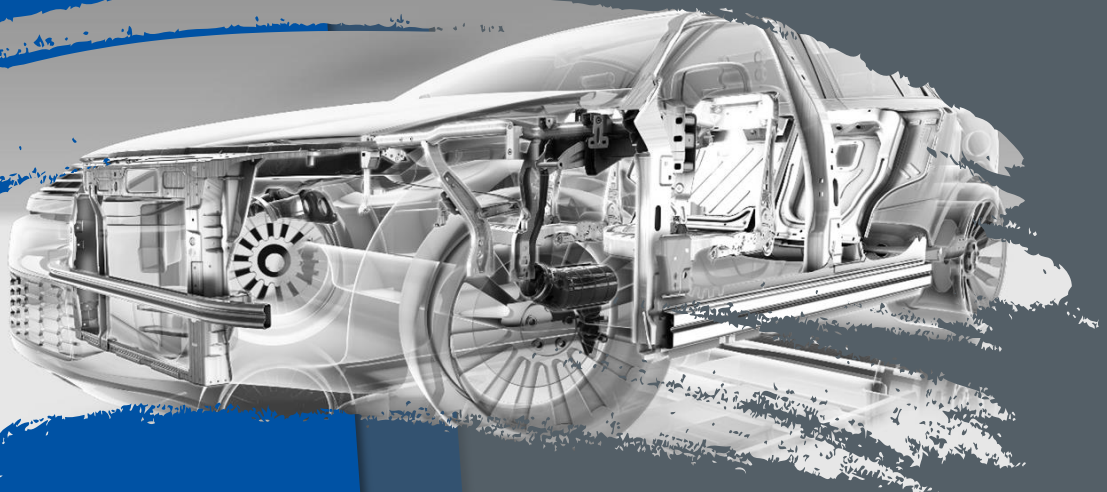


WE  
SPECIALIZE IN

# DEVELOPMENT OF CRASH RELEVANT COMPONENTS



## OUR SERVICES



Product + Process  
Development



Prototypes



State-of-the-Art  
Technologies



Equipment Center

LINDE + WIEMANN Group is a  
**leading German tier one  
automotive supplier for safety  
and crash relevant structural  
system components** for  
automotive OEMs, operating  
worldwide.

About **2,400 employees** world-  
wide, operates from 19 production  
sites in 8 different countries with  
headquarter right in the heart of  
Germany.

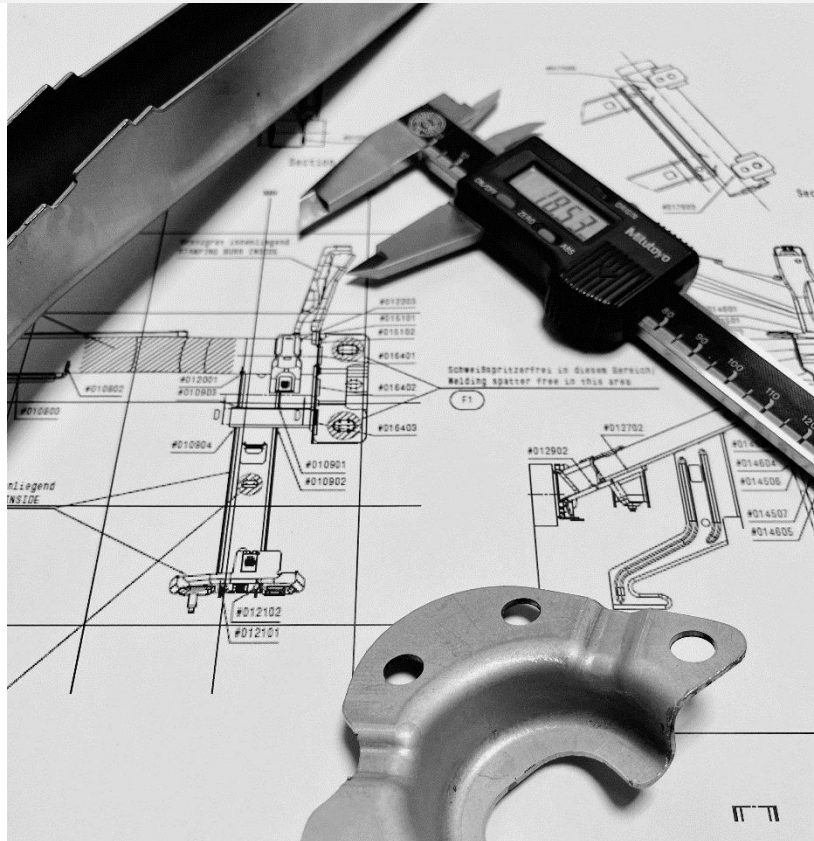
## Building strong development partnerships

In order to be the preferred strategic supplier and development partner, we intensify the close cooperation with our customers through our product development and our excellent manufacturing capacities.

CREATE



MEASURE



**LINDE + WIEMANN** strives for maximum precision, weight optimization and resource conservation.

Attributes to which we orient ourselves. Continuously.

- Examination of shape design, dimensions and tolerances according to drafts.
- Elaboration of designs considering specific manufacturing technologies, given materials and technical standards.
- Editing of design changes / implemented change management.



# Concept Know-How and Benchmarking

## BENCHMARKING

We position ourselves as a key player in technological solutions for crash and safety-related structures for non-conventional platforms.

**Material Thickness and -type**

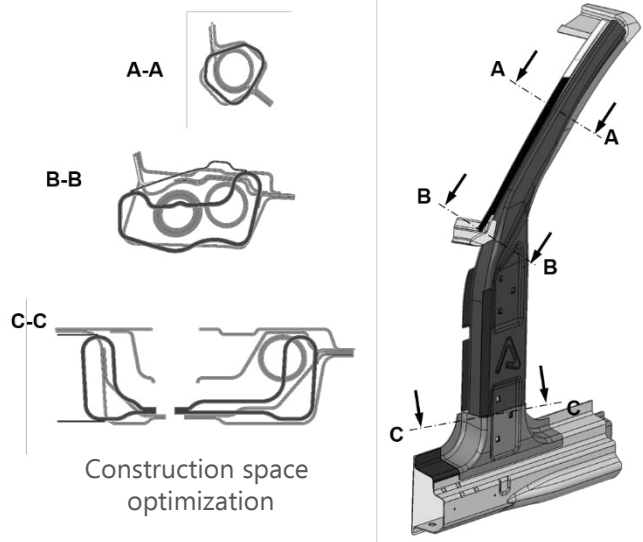
- Sampling of reference components
- Hardness comparison measurement
- Estimation of materials based on measured hardness / strength values (conversion)

**CAD-Data**

- Scanning of the components in the GOM process
- NURBS reverse engineering
- CAD reverse engineering

**NURBS-surfaces**

- We develop solutions for products within the framework of given concepts.
- Development projects and coordination with Centre of Competence.

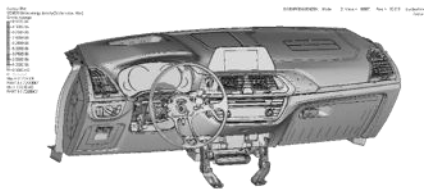


# CAE + Component Testing

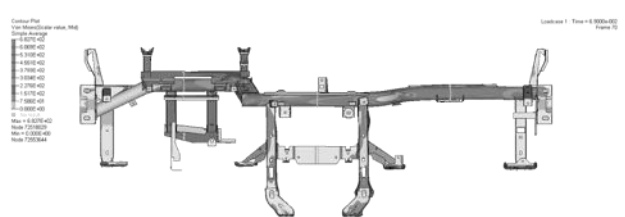
We strive to be at the forefront of sustainability and social responsibility in our competitive environment.

**Contributing towards improving the safety of vehicles** while reducing cost and weight for innovative Body-in-White, crash and safety relevant structural components and technology solutions.

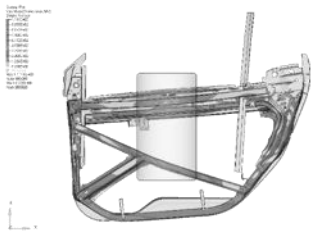
### CCB / Modal- and Shaker Analysis:



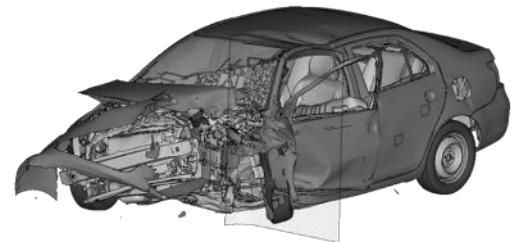
### CCB / Lateral Stiffness Crash:



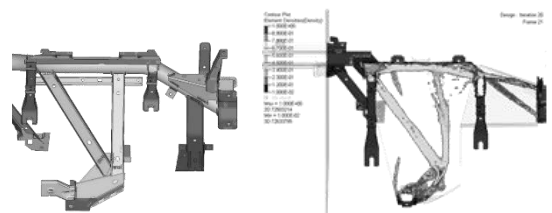
### Door Identification/Impact:



### Small-Overlap:



**OPTIMIZATION**



Topology + Topography optimization

Implicit and explicit CAE-calculation such as various stiffness load cases (lateral, torsional etc.), frequency (NVH), radial elasticity, front intrusion etc. can be performed in-house at LINDE + WIEMANN.

**Interested? → Feel free to contact us!**

## Prototypes

Are you looking for a reliable partner to turn your ideas into a (BIW-) prototype?



**Choose us** when it comes to reviewing concepts in their entirety, finding new solutions and implementing them in a practicable way.