

# Differential housing



## GENERAL FUNCTION

Our new differential housing design offers many opportunities when weight saving and limited installation space are driving factors for design.

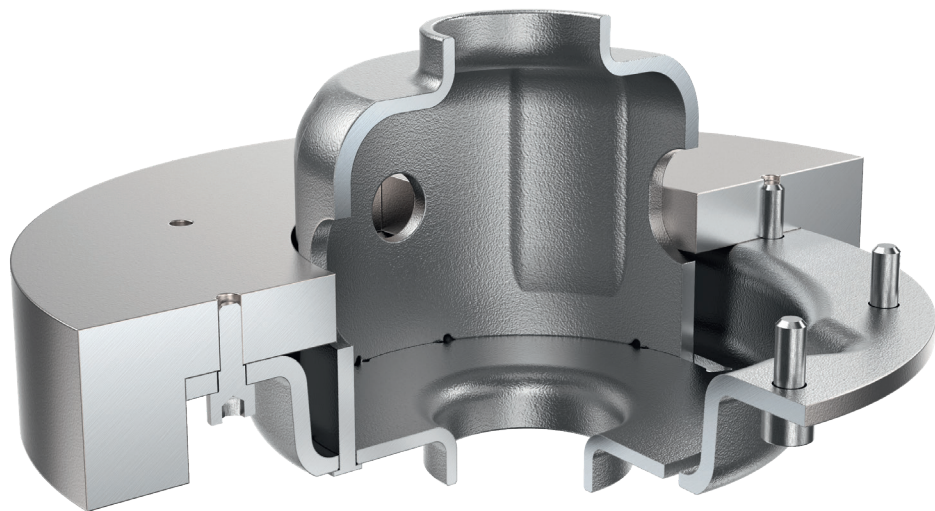
The formed sheet metal design allows an efficient mass production on forming presses, mechanical joining methods to eliminate welding processes and usage of high strength materials to transfer high torques. The ElringKlinger formed sheet metal differential housing design is a cost effective approach to reduce weight in high torque applications.



## TECHNOLOGY

FORMED SHEET-METAL PART WITH HIGH STRENGTH AND MAXIMUM PRECISION  
HIGH TORQUE MECHANICAL CONNECTION ( HTMC )

- No welding heat distortion
- Usage of high-strength materials possible
- Integration of metal forming and stamping geometries





## BENEFITS

- Simplified assembly
- Mechanical connection to the gear rim possible
- High torque transmission possible
- Reduction of wall thickness while maintaining the same rigidity
  - Weight reduction
  - Lower installation space
- Less machining compared to casting



## ELRINGKLINGER - YOUR PARTNER FOR DIFFERENTIAL HOUSINGS

Product Development (Design, Engineering and Simulation) – Process Development – Tool Shop  
Tool Sampling/Prototyping – Testing – Change-Management – Series Production – Part Measurement



## YOUR CONTACT

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