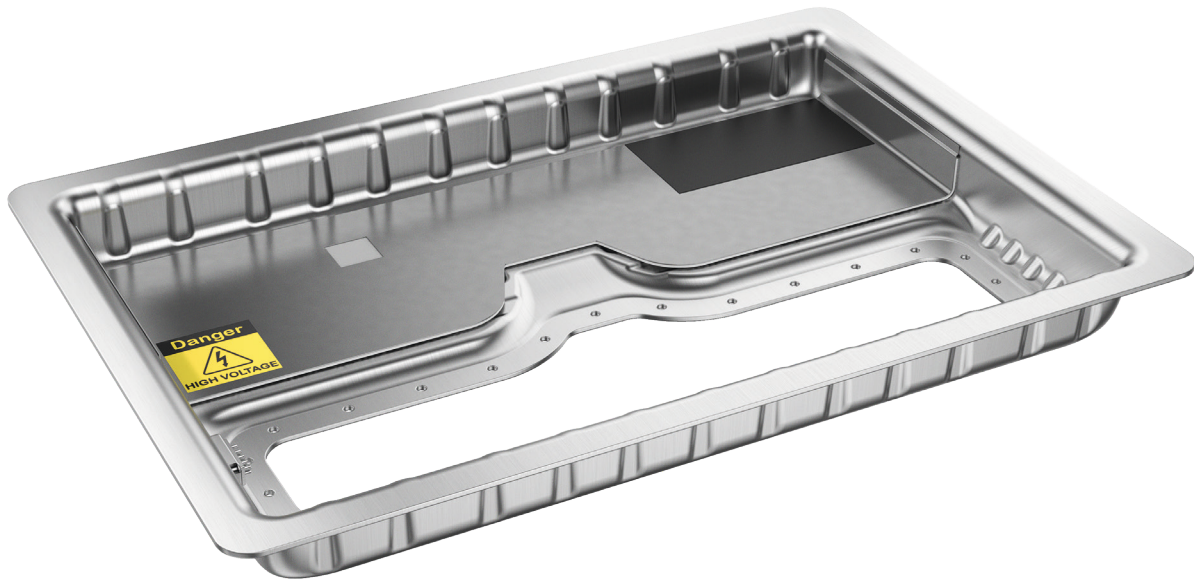


FACT SHEET

ElroShield™ EV



Efficient solutions for xEV applications
ElroShield™ EV by ElringKlinger

ElroShield™ EV combines the best of ElroShield™ M and ElroForm, targeting the mechanical, thermal, acoustical and electro-magnetic function of xEV applications.

ElringKlinger has developed and produced multi-layered sheet metal parts for decades – commonly known as ElroShield™ M. With the innovation of ElroForm in 2021, ElringKlinger can now provide metal formed parts and assemblies for xEV applications as part of our product portfolio.



ELRINGKLINGER – YOUR PARTNER FOR SINGLE-LAYERED FORMED SHEET METAL PARTS

Full service supply on a global scale: Project management – Design – Simulation – Part development –
Test & Validation – Ramp Up Management – Production

Standard carrier layer materials

- + Aluminium (0.2 mm – 3 mm)
- + Stainless steel (0.2 mm – 3 mm)
- + Fire Aluminized Low Carbon Steel DX53-56 (0.2 mm – 3 mm)
- + Cold-rolled steel DC04-06 (0.6 mm – 2 mm)

Applications

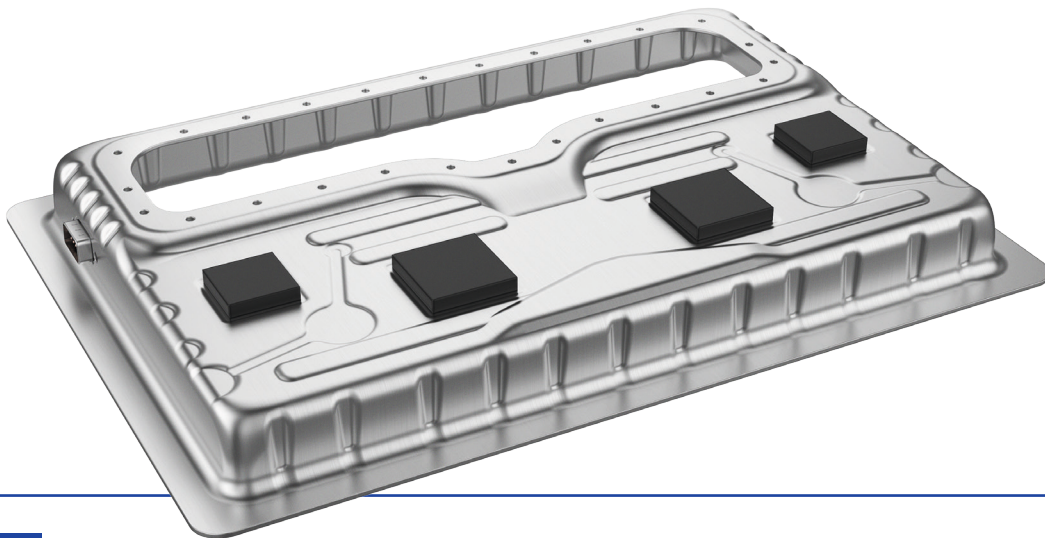
- + Battery boxes
- + Battery components
- + Covers for batteries or other xEV components

Added values

- + Structural strength and stiffness “insitu” within the carrier layer
- + Weight saving potential up to 50% due to the ElroShield™ EV design
- + Expensive thermal protection coating is not required
- + Superior thermal properties with regards to thermal events: passing Pyro-testing acc. e.g. TDO V03.986.764.A
- + Electro-magnetic capabilities can be customized with the second metal layer
- + Functional integration within the structural part
- + Production concept (low cost) available to execute high volume solutions (> 100,000) and given sustainability due to reasonable recycling

Working Temperature

- + Maximum 1,100°C (depending on material).



YOUR CONTACT

ElringKlinger AG
Phone +49 7123 724-0
E-mail info@elringklinger.com

ElringKlinger AG | Max-Eyth-Straße 2 | 72581 Dettingen/Erms | Germany
www.elringklinger.com

The information provided in this document is the result of technological analyses and may be subject to changes depending on the design of the system. We reserve the right to make technical changes and improvements. The information is not binding and does not represent warranted characteristics. We do not recognize any claims for compensation based on this information. We accept no liability for printing errors.



08/23