

ElroShield™ EV



GENERAL FUNCTION

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.

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



STANDARD CARRIER LAYER MATERIALS

- Aluminium (0.2 mm – 3 mm)
- Stainless steel (0.2 mm – 3 mm)
- Fire Alumnized 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).



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

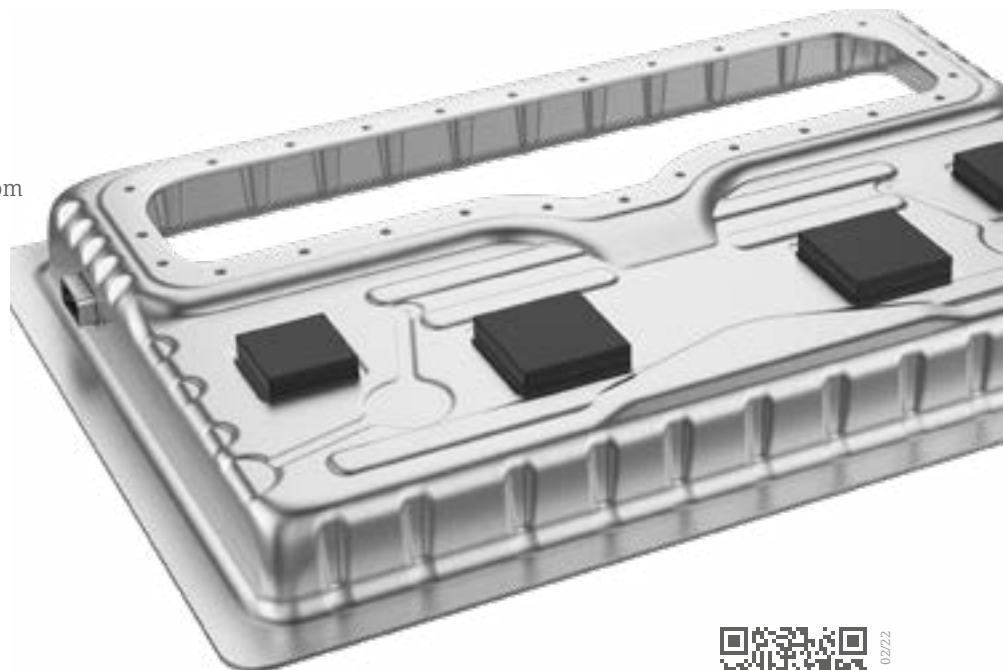


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