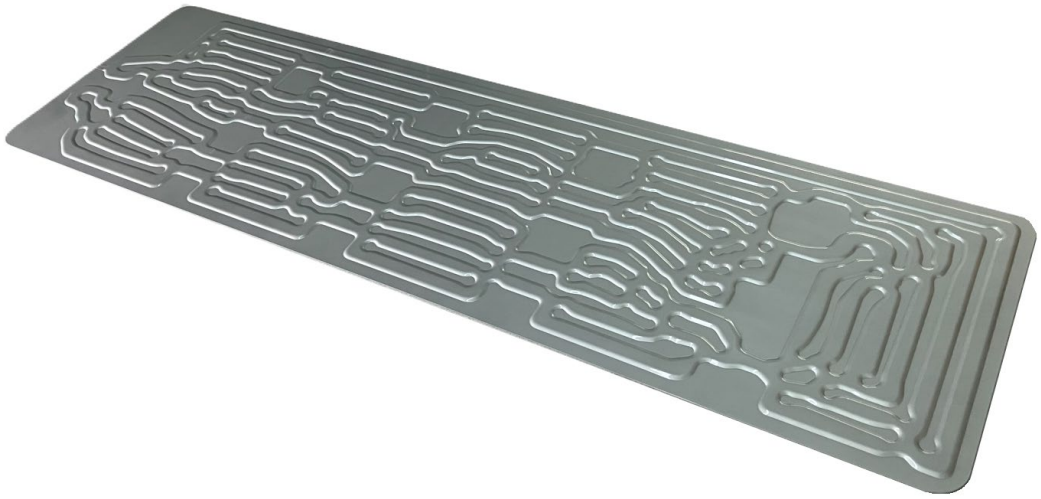
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Mubea



Bionic Cooling Plate



Innovation:

- Workflow-integrated, algorithm-driven channel design tool optimizing the trade-off between thermal performance, hydraulic efficiency, and manufacturability
- Automated exploration of vast design spaces beyond traditional engineering limits

Customer Benefit:

- Optimal trade-off: Channel patterns at the sweet spot between heat transfer and pressure drop
- Proven performance improvement compared to current series design (Pressure Drop -10 %; Heat Transfer Coefficient +7 %)
- Development time: Rapid reaction times due to automated design generation

Status:

- Prototypes successfully manufactured and validated
- Application in first customer development programs
- Ready for further industrialization and series application development

