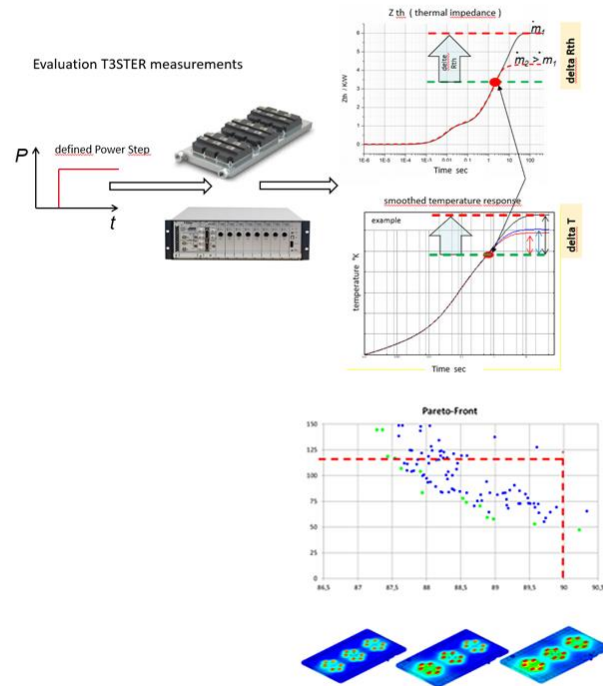
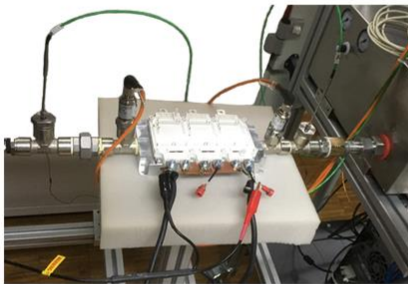
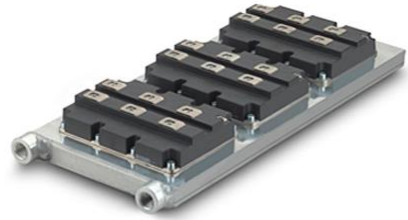


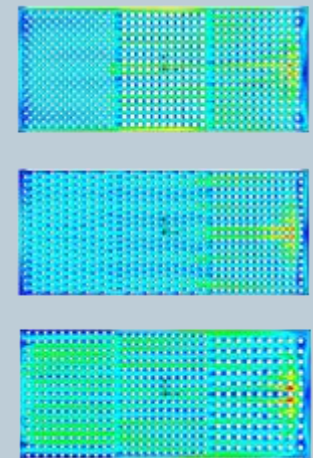
# ZFW – Zentrum für Wärmemanagement

Optimization in collaboration of several Simcenter Tools



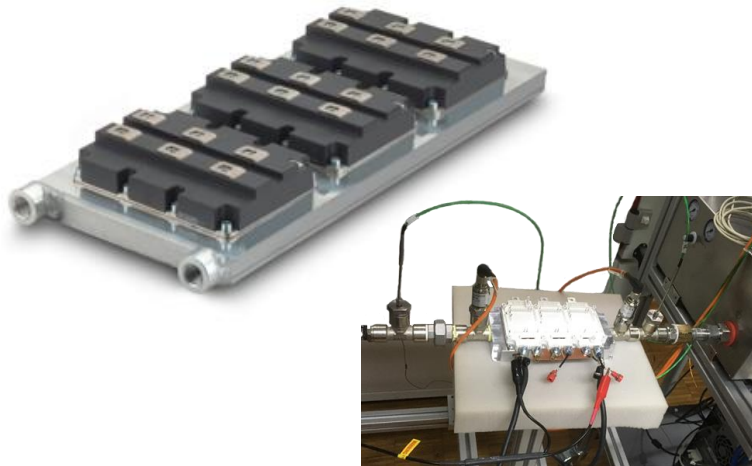
Characterization and simulation of fluid cooling systems for power electronics simulation

Automate the design optimization with Simcenter Micred T3STER, Simcenter FLOEFD and HEEDS

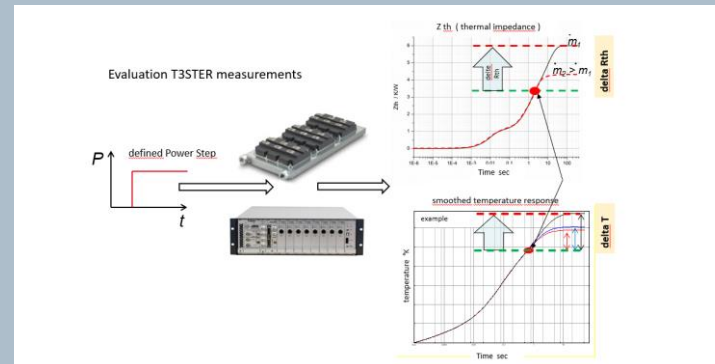


# ZFW – Zentrum für Wärmemanagement

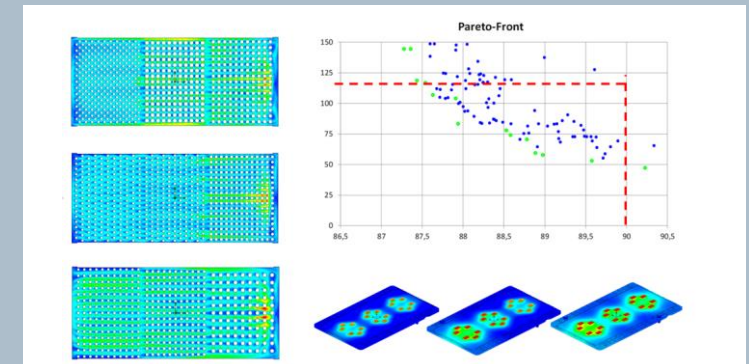
## Optimization in collaboration of several Simcenter Tools



### Characterization and simulation



Characterization with Simcenter T3STER



Simcenter FLOEFD + HEEDS Optimization

- Thermal transient measurement method (Simcenter T3STER) proofed to be part in a heat sink optimization
- Deviation measurement to simulation < 10% over wide temperature and mass flow range
- Automate the design optimization with Simcenter FLOEFD and HEEDS

- Characterization and simulation of fluid cooling systems for power electronics simulation

“We successfully established a combined process of simulation and measurement. With our new approach in combination with optimization simulation our design engineers are able to characterize and optimize our customers’ products. With this combination we deliver a noticeable added value.”

Dipl. Ing Peter Fink, Zentrum für Wärmemanagement