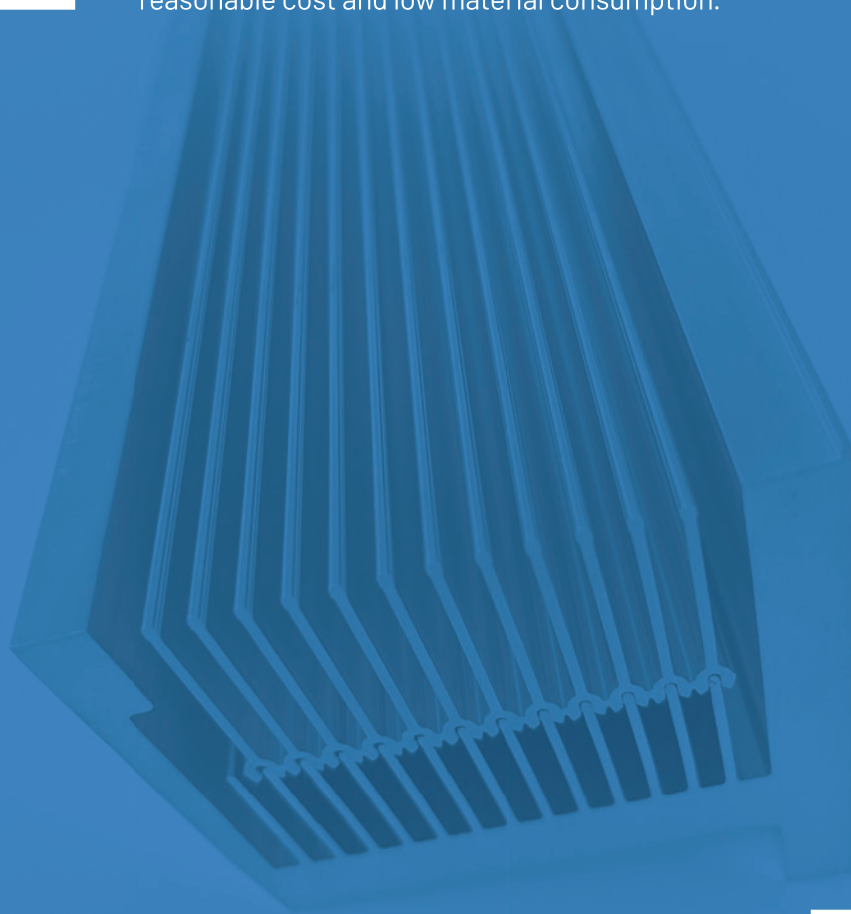


# High-performance heat sinks

Intelligent thinking on aluminium.

The demand for power electronics has increased in many industries. With the increasing performance of these components, thermal management has become a critical factor. apt's high-performance heat sinks offer high cooling performance at a reasonable cost and low material consumption.

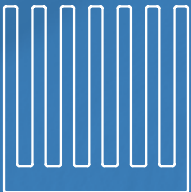


## Facts and figures

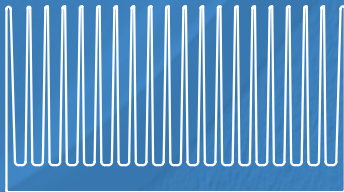
|                                                                       |                                                             |                                                                                                                          |                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Individual heat sinks for</p> <p><b>small and large series</b></p> | <p>Engineering service</p> <p><b>Thermal simulation</b></p> | <p>Co-engineering along the value chain</p> <p><b>from the billet to heat sinks to the assembly module</b></p>           | <p>Further processing in-house</p> <ul style="list-style-type: none"> <li>■ <b>CNC processing</b></li> <li>■ <b>Pressing of finned coolers</b></li> <li>■ <b>Anodizing</b></li> <li>■ <b>FSW welding</b></li> <li>■ <b>Assembly</b></li> </ul> |
| <p>Tongue ratio with extruded heat sink</p> <p><b>up to 18:1</b></p>  | <p>Profile widths in-house</p> <p><b>up to 400 mm</b></p>   | <p>Maximum cooling capacity in the smallest installation space</p> <p><b>Patent: multi-part CoolFusion heat sink</b></p> |                                                                                                                                                                                                                                                |

## apt high-performance heat sinks

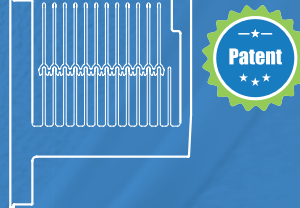
Standard heat sink



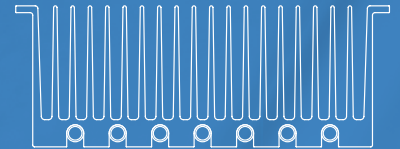
High-performance heat sink  
Tongue ratio: up to 18:1



Patented, modular high-performance heat sink



Hybrid liquid heat sink



Cooling power

## Product quality with apt



### E-Mobility

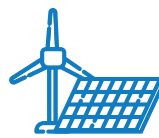
Efficient temperature regulation of electronic components, e.g.

- Batteries
- Power electronics
- Electric motors



### Electrical engineering

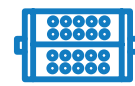
High protection of sensitive components through efficient heat dissipation.



### Renewable energies

Optimum performance/longevity of electronic/electrical components, e.g. in

- Photovoltaic systems
- Wind power plants
- Hydroelectric power plants



### LED lighting

Extension of the service life of LED lighting through optimal and efficient cooling.

