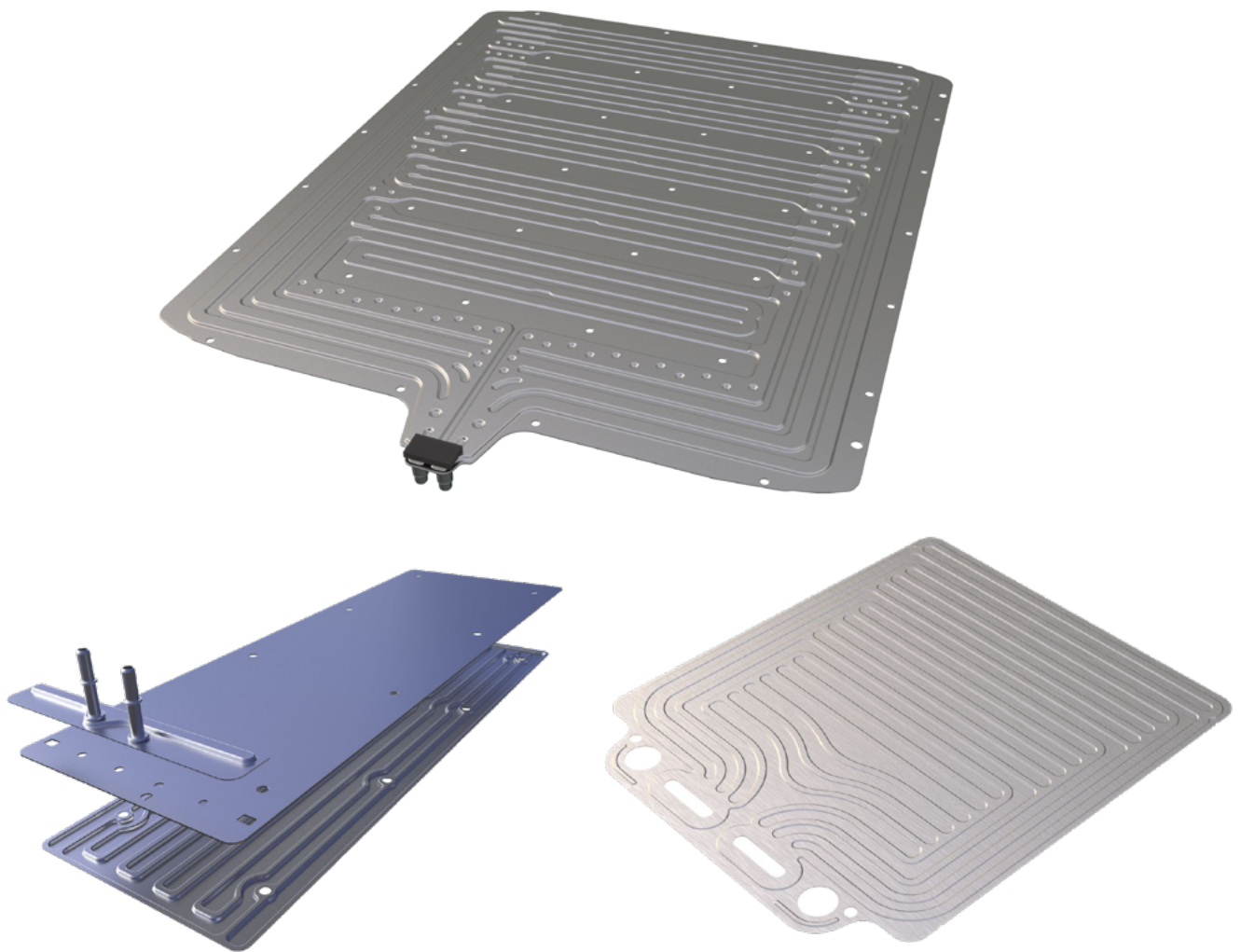
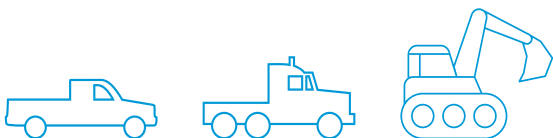




Hybrid and Electric Vehicle Battery Cooling Technologies



Ideal for Light Vehicle, Commercial Vehicle, and Off-Highway Vehicle Applications



Battery Cooling Technologies for the Most Advanced Vehicles

Dana designs, develops, and manufactures custom heat transfer products for vehicle electrification. Our extensive range of thermal-management products sets the industry standard for innovation and quality.

Dana offers a range of thermal-management products for hybrid and electric vehicle battery applications, for both light- and heavy-duty vehicles. Dana's extensive research and development expertise enables custom-designed cooling solutions that feature lightweight aluminum construction and result in ultraclean products. With world-class engineering and problem-solving ability in thermal-management applications, Dana provides solutions that are customized to exact OEM needs.

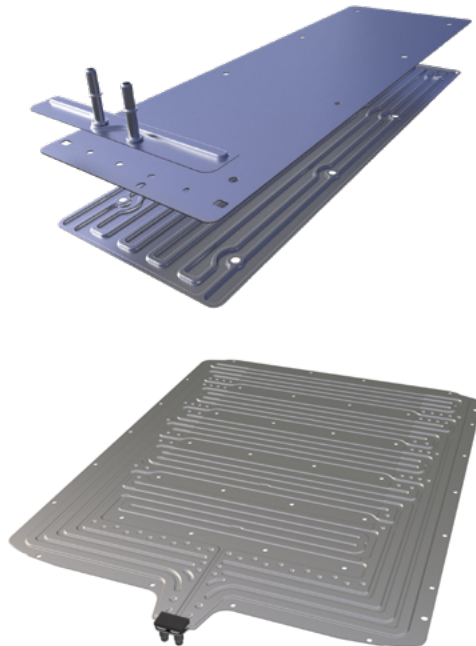
InterCell Battery Cooling Plate

- Thin (1 mm) plate cooler with internal liquid-cooling channels
- Interleaved between cells for maximum heat transfer surface contact
- Best achieved cell temperature uniformity for extended battery life
- Superior cooling during fast charge / discharge
- Integrated dielectric separation film



Battery Cold Plate

- Liquid-cooled plate for mounting hard can or pouch battery modules
- Leveraging both brazed and laser-welded construction
- Lightweight, stamped aluminum construction – Dana flux-less, clean braze technology available for certain applications
- Multiple patents for battery pack temperature uniformity optimization and flow balancing
- Dielectric powder coat and film capabilities



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Application Policy

Capacity ratings, features, and specifications vary depending upon the model and type of service. Application approvals must be obtained from Dana TM4; contact your representative for application approval. We reserve the right to change or modify our product specifications, configurations, or dimensions at any time without notice.

