

**Heat transfer technology**

▶▶ Slovenian company, Talum, has leveraged its experience as primarily an aluminum producer to create a new brand innovation for electric vehicles. It has created a heat transfer plate exchanger product called Heatraplates, which is targeted specifically for recognized use in the automotive and marine industries for cooling of battery packs.

Heatraplates are in demand in situations where very high efficiency is required, and at a moderate price, for the heat transfer of plate exchangers. These include high-efficiency

coolers in household and commercial refrigerators, solar receivers (solar thermal collectors, hybrid photovoltaic (PVT) panels), manufacturers of sanitary heat pumps and manufacturers of battery packs for electric vehicles.

With its innovative approach and state of the art production of roll-bond aluminum flat plate heat exchangers, Heatraplates represents the future of heat exchangers for cooling and heating of battery packs or larger cells, as well as other electrical components where thermal management is required.

Talum's production of roll-bond Heatraplates is based on tradition of 40 years of production and roll-bonding process evolution. Further growth of roll-bond technology is driven by enthusiastic young engineers striving to push new boundaries in environmentally friendly energy efficient heat exchangers, as they face a future forecasted to have high demands for cooling plates as a result of e-mobility growth.

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To learn more about Talum, visit: [www.magupdate.co.uk/PEHV](http://www.magupdate.co.uk/PEHV)



**Pioneers in waste**

▶▶ Transfluid North Europe has been the key supplier of the Geesink Norba electric and hybrid refuse waste trucks since 2012.

In collaboration, it designed from scratch the first li-ion powered waste truck called V6 to reduce the weight and to improve the payload. The proof of this successful partnership has led to more than 200 trucks already supplied.

Transfluid is supplying all components, from the electric motor to the charge connecting cords, as one complete power and drive package, and just-in-time to

the production facility located in Emmeloord in the Netherlands.

Geesink Norba believes that by 2020 any fleet should be able to collect and manage more resources totally emission free. As pioneers in waste they have been engineering and developing electrical and hybrid waste management solutions since 2003. Transfluid North Europe is assisting them with the results and progress they have made.

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**Silicone solutions for componentry**

▶▶ Electronic components need protection from moisture, dust and contaminants found in everyday use. This protection can be provided by using RTV (room temperature vulcanizing) silicone elastomers for bonding, potting, encapsulating and coating of sensitive electronic components. The CHT SilSo electronics range has outstanding high temperature and weather resistance, in addition to cushioning vibrations, offering

excellent electrical insulation and heat dissipating properties.

CHT offers innovative silicone solutions, tailored to meet the individual requirements found in a range of different electronic applications. Where high power electronic components generate unwanted heat, CHT Silcotherm silicones can be used to dissipate that heat away to a suitable heat sink. This enables the design engineer to choose one product,

such as an adhesive for bonding or an encapsulant for protection, but with the additional functionality and benefit of thermal transfer. The result is longer life and improved performance of the component.

Investment in high specification laboratories in Europe and the USA, ensure that the CHT technicians can focus on developing and delivering application-based solutions.

These electronic applications are found within the aerospace, LED, aviation, telecommunications and automotive industries. However, there is a particular special interest in the use of silicones to support the development of electric vehicles and renewable energies.

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