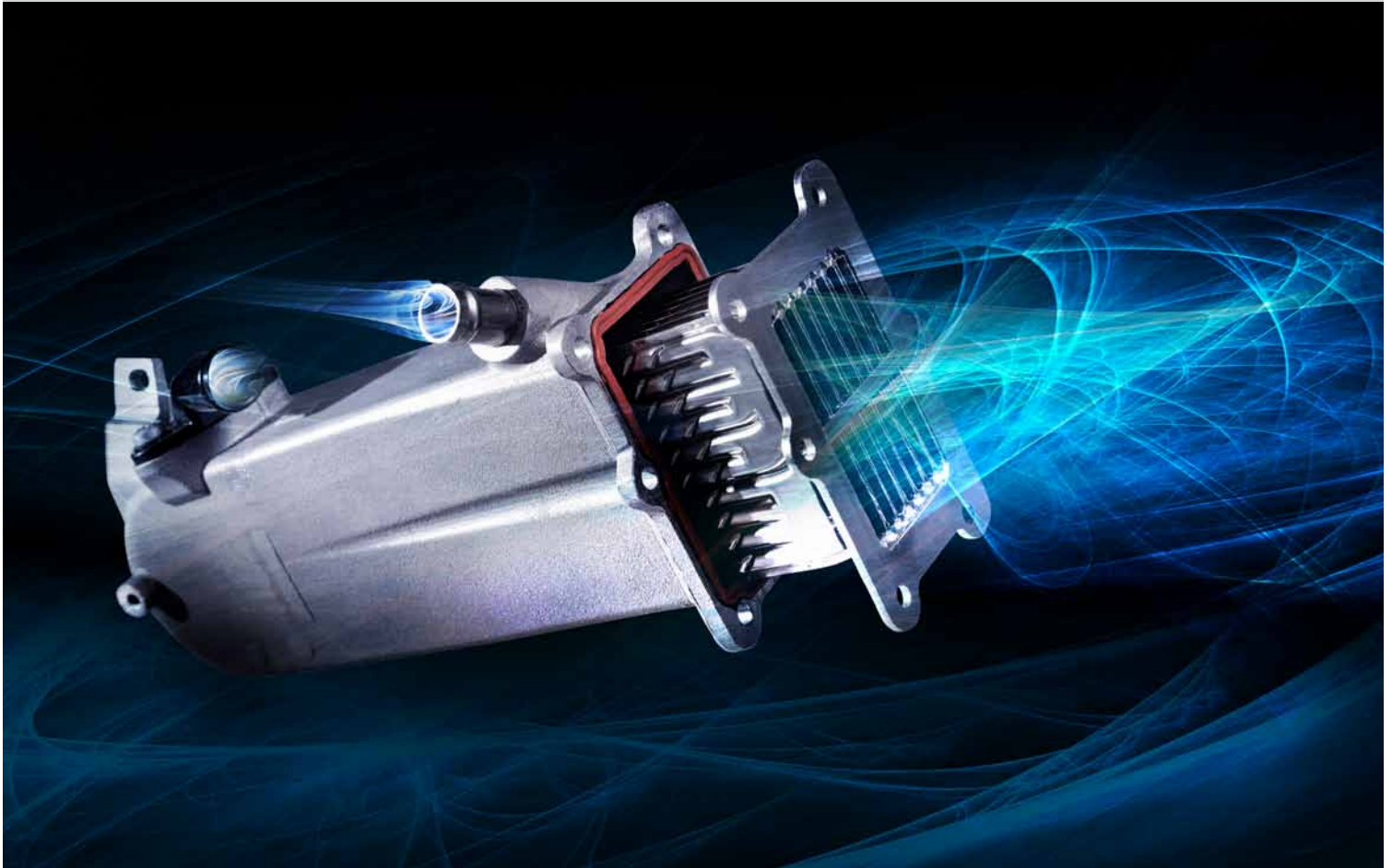


# HYBRID HEAT EXCHANGER



## The hybrid heat exchanger brings together all the advantages of manufacturer technologies

Less and less space remains for high-performance heat exchangers (HE) for exhaust gas recirculation (EGR) in highly-integrated engines. Handtmann, by means of the Hybrid HE, has made it possible to depict the exhaust gas system with thin-walled and corrosion-resistant stainless steel and the coolant housing in aluminium die casting. The advantage of this material combination is a scientific integration of connections for coolant, EGR line, valve interfaces and many other holders.

An important side effect is a significant reduction in weight compared to pure stainless-steel HE and the elimination of common soldering or welding processes for interface components.

The production technology of the stainless-steel exhaust gas plug-in module allows for all flow optimization opportunities to be exploited. This guarantees consistently-optimized gas redirection (W flow) during low pressure loss. Virtually each geometry is configurable with the deep-drawn and welded half-shell.

- Optimal use of different materials and their production technology.
- Reduced overall weight
- High power density at the level of Plate & Fine heat exchangers
- Flow-optimized gas flow due to special production technology
- Economically optimised thanks to specific use of corresponding materials

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