DIEHL
Metal Applications

METAL HYBRID SOLUTIONS FOR ELECTRIFICATION

POWER FOR ELECTRIFIED MOBILITY

Due to the rapidly increasing demand for electric and hybrid mobility solutions, high-voltage connectors and overmoulded busbars for inverter and converter applications become more important in the future.

Those components ensure the transfer of voltages up to 1000V and high-speed signals in environments with electromagnetic interference.

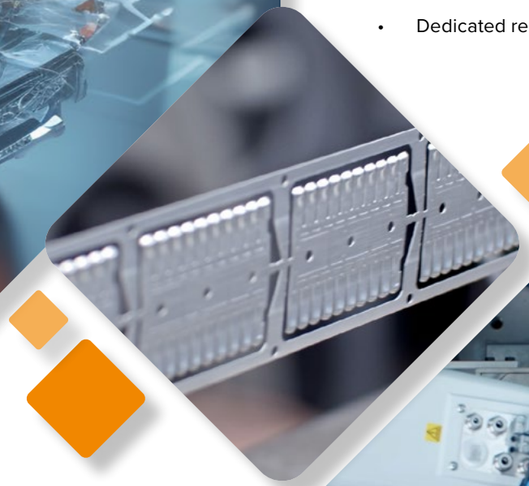
At the same time, voltages of 1000V combined with high-speed signals require new designs.

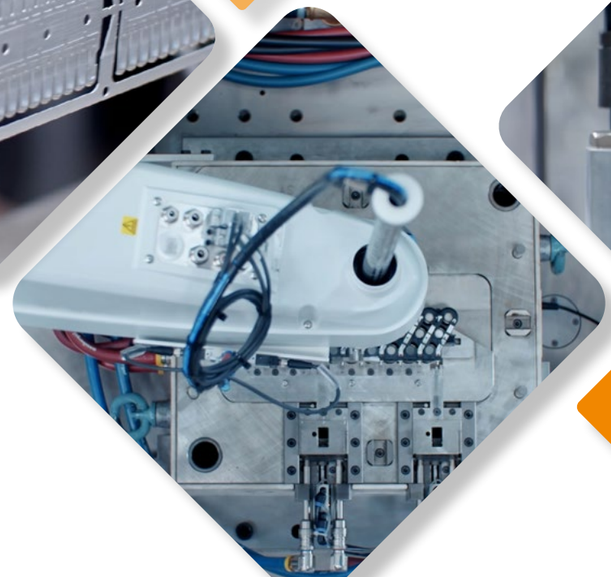
Diehl Metal Applications (DMA) is specialized in the development and manufacturing of innovative hybrid products as key components for eMobility.

We adapt and scale all materials such as copper alloys, bimetals, plastics, bolts, sleeves, bushings, etc. to the requirements of high voltage applications. Our internal processes for tooling, stamping, plating, overmoulding, assembly, testing and packaging follow the new design of the connections.

ADVANCED MANUFACTURING PROCESSES

- Modular productions systems (MAB-EL) for the complete value chain of overmolded and assembled busbar connections
- Stamping capabilities up to 5 mm thickness of copper alloy materials
- Dedicated reel to reel plating lines



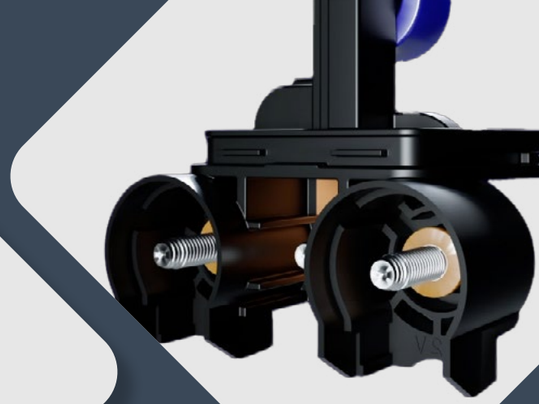


DCDC CONNECTOR

With this design example of a DC DC Connector, Diehl Metal Applications can offer innovative solutions for efficient power transmission in the field of electromobility.

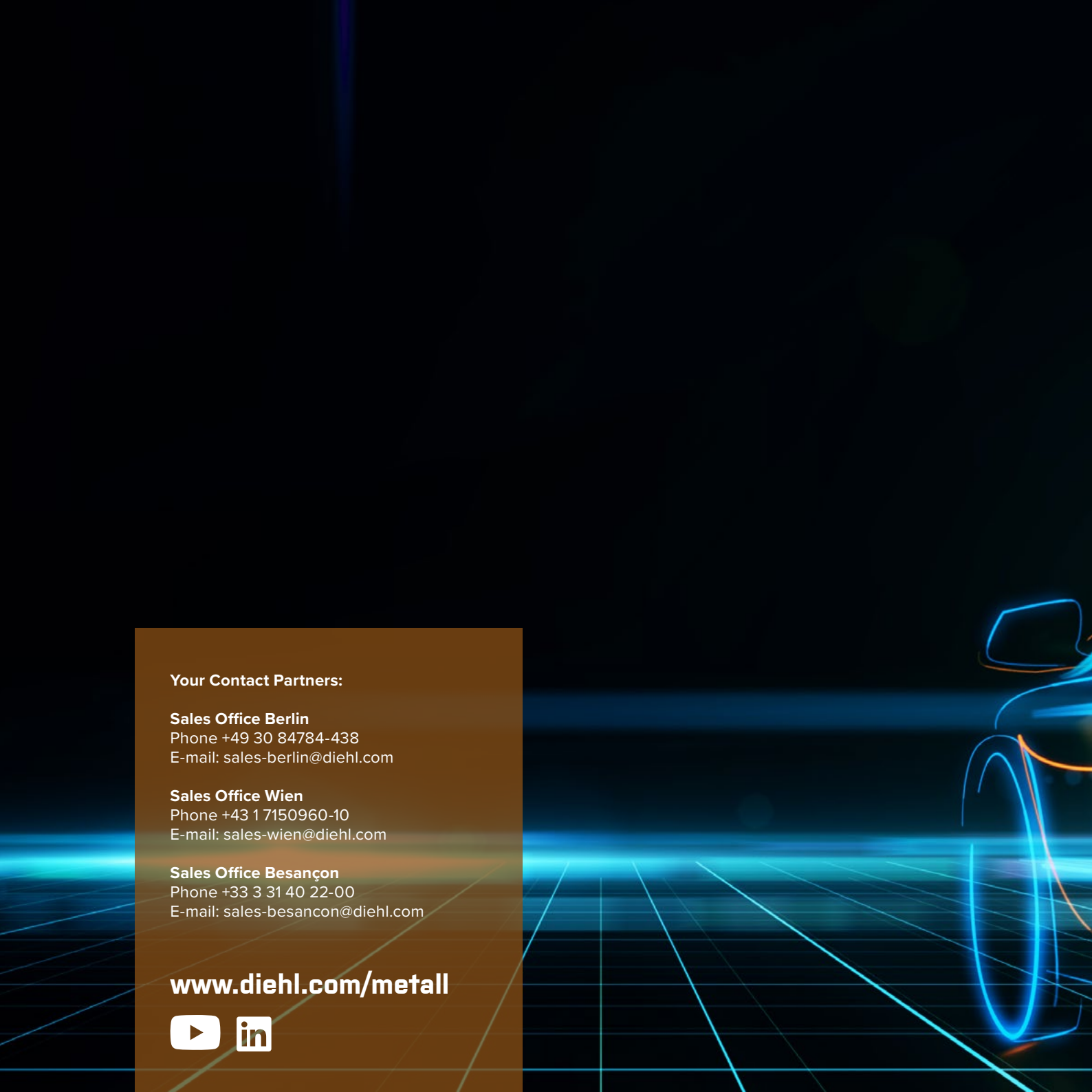
The connector enables seamless transmission of DC power and ensures that energy is used effectively, and losses are minimized:

- Co-design and prototyping
- Pre-series and serial mass production
- Applications up to 1000V
- 12V and 48V bridge



GET IN TOUCH WITH US

Feel free to be **CONNECTED** with our team
for any question and information you need around!



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