

**DIEHL**  
Metall

# E-SOLUTIONS

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MODULAR. EFFICIENT.  
FORWARD-THINKING.



**DIEHL**  
Metal Applications



# TOGETHER WITH YOU, WE SHAPE THE FUTURE OF TOMORROW.

A dynamic, electrified future – without losing sight of the environment – is one of the key challenges of tomorrow.

Especially battery-powered applications such as e-bikes, power tools, drones, autonomous logistics systems, and humanoid robots are gaining increasing importance – both in everyday life and in industrial processes. At the same time, the global market for smart and cognitive technologies is rapidly evolving and growing steadily.

Diehl Metal Applications has already established itself as an innovation partner in these forward-looking fields. With state-of-the-art manufacturing concepts and tailored, technologically advanced solutions, we support our customers in developing high-performance, energy-efficient, and modular products.

For decades, we have been a reliable partner to the international automotive and electronics industries – and we are now purposefully transferring our entire expertise to new areas of application.



## NEXT-GENERATION BATTERY CELL HOLDERS

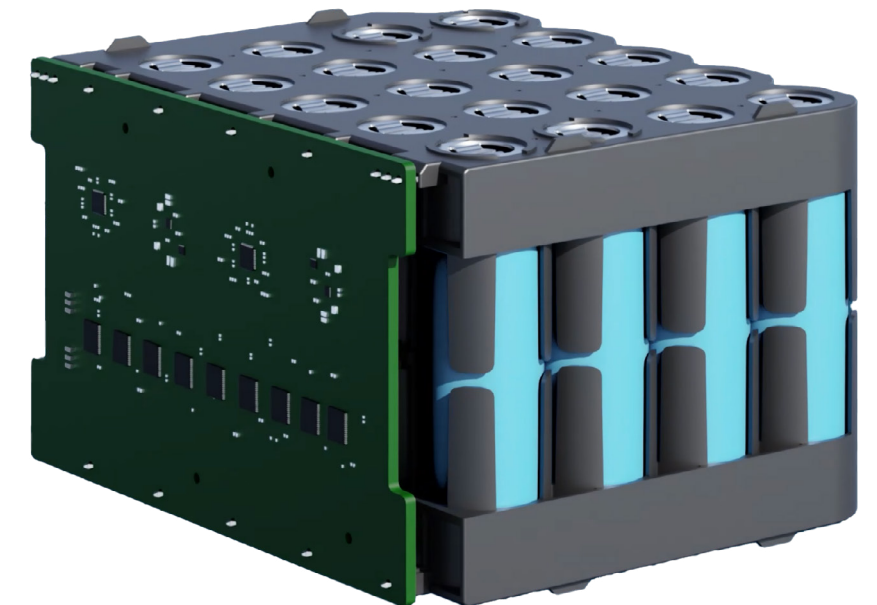
With our innovative metal-plastic composite systems, we develop high-performance components for groundbreaking applications across various industries:

- **E-Mobility** (e.g., e-bikes and two-wheelers),
- **Consumer & Industrial Construction** (such as power tools),
- **Industrial Logistics** (e.g., AGVs and AMRs),
- **Modern drone technologies.**

Whether battery holders, charging, or drive units – our solutions are precisely tailored to individual requirements and combine high functionality with forward-thinking design.

### YOUR BENEFITS AT A GLANCE

- Process optimization through automation-friendly design
- Design freedom & scalability thanks to modular variants
- Resource conservation through easy disassembly and high recyclability
- Space-saving with reduced footprint while maintaining maximum performance
- Versatile applicability for various formats and markets

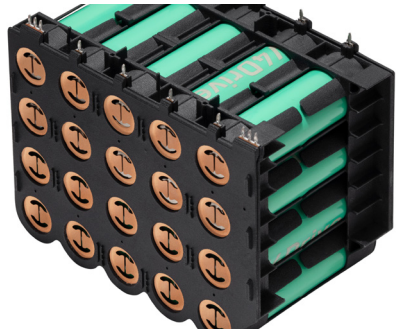


# FLEXIBLE CONFIGURATIONS FOR ANY FORMAT

## APPLICATIONS



- Applications: Consumer & Industrial Construction
- Durable spot welding



- Applications: Garden & Landscaping Equipment,
- AGV (Automated Guided Vehicles), AGR (Agricultural Robots)
- Connection technology through laser welding



- Applications: eBikes & Light Commercial Vehicles (LCV)
- Wire bonding

# FEWER CONNECTIONS, MORE POWER

## VARIABLE DESIGN

- Short tolerance chains for precise fit
- Waterproof construction for maximum safety
- Lower heat generation for extended runtime
- Performance optimization through intelligent material use
- Modularity for flexible applications

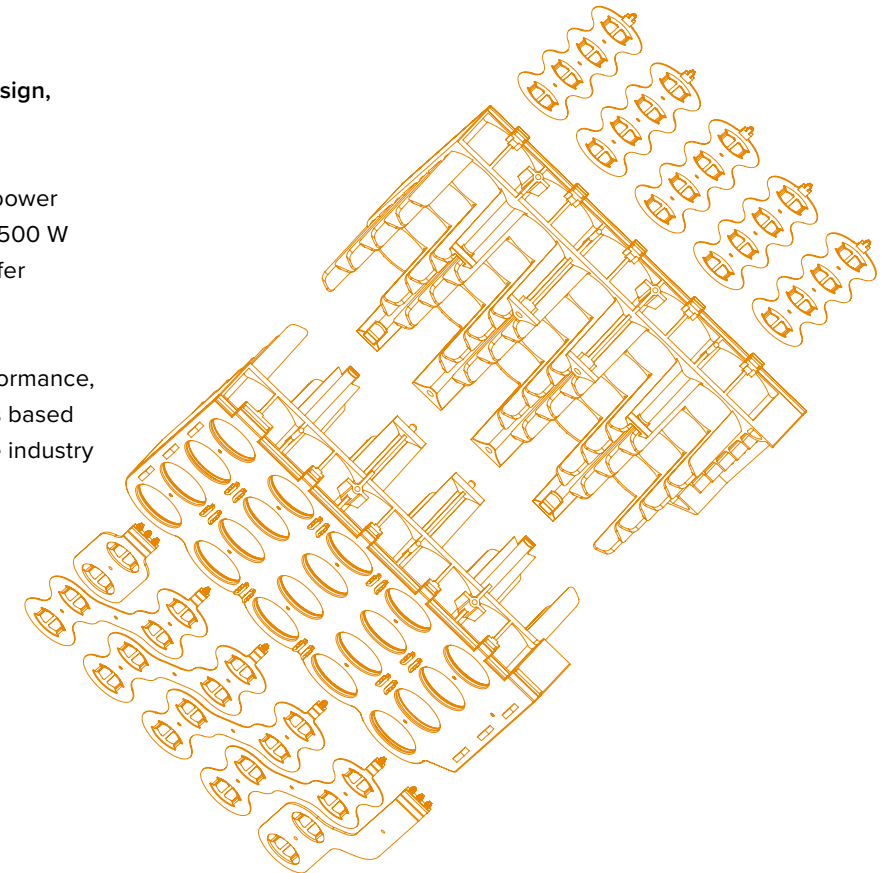
## WE MEET MARKET DEMANDS

By using Diehl Metall's Applications Cell Holder Design, numerous advantages can be realized:

- Tabless 21700 & 18650: Less resistance, more power
- High output power (AC nominal power) up to 2,500 W
- Improved heat dissipation & efficient heat transfer
- Reduction of electrical connections

These features enable a more compact, higher-performance, and longer-lasting battery unit. Our manufacturing is based on extensive technical experience in the automotive industry and a fully automated production process.

This ensures consistently high quality – even with fluctuating quantities or short-term capacity expansions.





### COST-OPTIMIZED THROUGH EFFICIENCY

Through automated processes and smart product design, we reduce assembly times and lower your overall costs – all without compromising on quality, performance, or durability.

### FUTURE-PROOF & EU-COMPLIANT

Our solutions meet the current EU regulations in the areas of:

- Sustainability
- Recyclability
- Reparability

In this way, we take responsibility – for an environmentally friendly and sustainable production of tomorrow.



# YOUR PARTNER FOR FUTURE-PROOF PRODUCTS AND TECHNOLOGIES

Benefit from the extensive expertise of Diehl Metal Applications in product development and manufacturing. Within our corporate group, we offer tailored solutions across the entire value chain – from the first idea to series production.

### OUR STRENGTHS:

#### Product Development:

We support you in all phases of product creation with competent contacts. Expertise in simulation, product, and process development work together as one team to ensure an integrated and efficient development process.

#### Prototypes:

From the first sample to series production, we manufacture individual solutions and complete products.

#### Press-fit Zone Technology:

Innovative, solder-free connection technology for maximum flexibility and efficiency.

#### Plating:

Modern plating for safety and long service life.

#### Precision Stamping Technology:

Advanced manufacturing processes ensure precision and quality.

#### Overmolding Technology:

Customized metal-plastic composite systems for maximum efficiency and safety.

We offer flexible capacities and economically cover various volume scenarios – ideal for your specific requirements.







**WE GET METAL  
INTO SHAPE**

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