Battery Components
Solutions for the battery pack of the future
Miba is one of the leading strategic partners of the international engine and automotive industries. Our product portfolio includes sintered components, engine bearings, friction materials, power electronics components and coatings, used around the world in motor vehicles, trains, ships, aircraft and power plants. Miba’s technology makes them safer, more powerful and more environmentally friendly.

Whether it is reducing CO₂ emissions, increasing the efficiency of existing drive concepts or keeping pace with the trend toward new alternative energy sources: Miba supports its customers every day with pioneering technologies.

Our mission: Innovation in Motion – Technologies for a Cleaner Planet.
Miba – electrified by an idea – came up with unique and innovative new solutions to master this challenge efficiently. Based on the latest production technologies, the Miba team offers the battery market game-changing components.

From new cooling solutions without the need of gapfillers to innovative battery housings, Miba already today provides the technology of the future.

The FLEXcooler® is the perfect example for this with its core benefits:

**Flexible and safe**
- In dimensions
- In shapes
- Tolerance compensation
- Non-electric conductive component

**Modular**
- Cylindric cells
- Prismatic cells
- Pouch cells
- Module sizes / pack sizes

**Lightweight**
- More than 80% weight reduction compared to existing market solutions
- Higher battery range
- Boosting performance

**Intelligent Components**
- Increased safety
- Wireless sensors

**Reduced Space**
- No more Gapfillers
- Smart material use
- Reduced assembly effort

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Cooling and heating
Integrated heating and sensing functionalities
• Temperature, humidity, pressure, ...
• Reduction of wiring
• Measurement at the point of interest
• Easy installation

Application: prismatic battery cells
No gapfiller needed!
• Highly adaptable to a broad range of geometries
• Tolerance compensation
• Low width of the design
• Design flexibility
• Non electric conductive component
• Better thermal efficiency

Application: cylindrical battery cells
No gapfiller needed!
• Highly adaptable to a broad range of geometries
• Lightweight component
• Tolerance compensation
• Low width of the design
• Design flexibility
• Non electric conductive component
• Better thermal efficiency

Heatpipe technology
Active temperature balancing with a passive component
• Very high thermal conductivity
• Non-liquid circuit
• Non-electric conductive component
• Very low ΔT
• Design flexibility

The scalable, flexible battery housing for niche applications
• Flexible design
• Highest modularity
• Cost efficient
• Integrated cooling

Emergency Separation between HV-Battery and Car
• Increased safety, stability, reliability
• Vibration & pulse proof
• Optimized size
• Optional passive triggering: fuse function
• Optional discharge function integrated
• Hermetically sealed, no blowout

Limitation of the Switch on Current
• Increased safety, stability, reliability
• Typical fail safe mode (open circuit)
• Vibration & high pulse proof
• Optimized size
• No smoking, fire, explosion