

ENERGIZE LIFE

Miba Battery Systems



18th A3PS Conference - Eco-Mobility conference 2023
Miba Battery Systems VOLTfactory® - from concept to reality



 Federal Ministry
Republic of Austria
Climate Action, Environment,
Energy, Mobility,
Innovation and Technology

Technologies for a cleaner planet



29 production sites



7,546 employees



1.114 Mio. EUR



**ENERGY
GENERATION**



**ENERGY
TRANSMISSION**



**ENERGY
STORAGE**



**ENERGY
USE**

**NO POWER WITHOUT
MIBA TECHNOLOGY**

Miba Battery Systems



1 production site



~90 employees



Pioneer in laser connection

(First company worldwide)



Diverse Team

8 nationalities, 18% women



Sales offices



More than 14 years of battery development and production experience



ENERGY STORAGE



Miba Battery Systems



We are an innovation driven battery system supplier

Building outstanding battery solutions for the electrification of the future!



What is the VOLTfactory® concept?



Miba Battery Systems GmbH

Maximilianstraße 4
4190 - Bad Leonfelden / Austria

Tel: +43 7213 20 400
batterysystems@miba.com

The VOLTfactory® is Miba's Battery System manufacturing plant

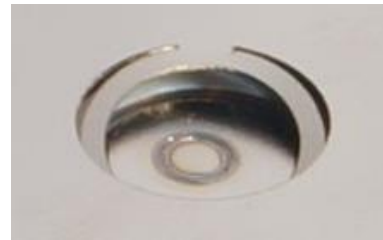
- **PRODUCT:** Outstanding technologies
- **PROCESS:** Flexible production concept/technology
- **MARKET:** Use of Miba's global manufacturing footprint



Base of the VOLTfactory® is a outstanding technology

Some examples...

- Laser connection of the battery cells
- Single cell fusing
- Autonomous guided robots in logistics
- FLEXcooler® inside





FLEXcooler®
The liquid cooling system



NO GAP FILLER



LIGHTWEIGHT & SLIM



TOLERANCE COMPENSATION



10 X LOWER CO₂-FOOTPRINT



Fully automated production line - VOLTjet®



Automated guided vehicles - Battery powered by Miba Battery Systems

AGILOX

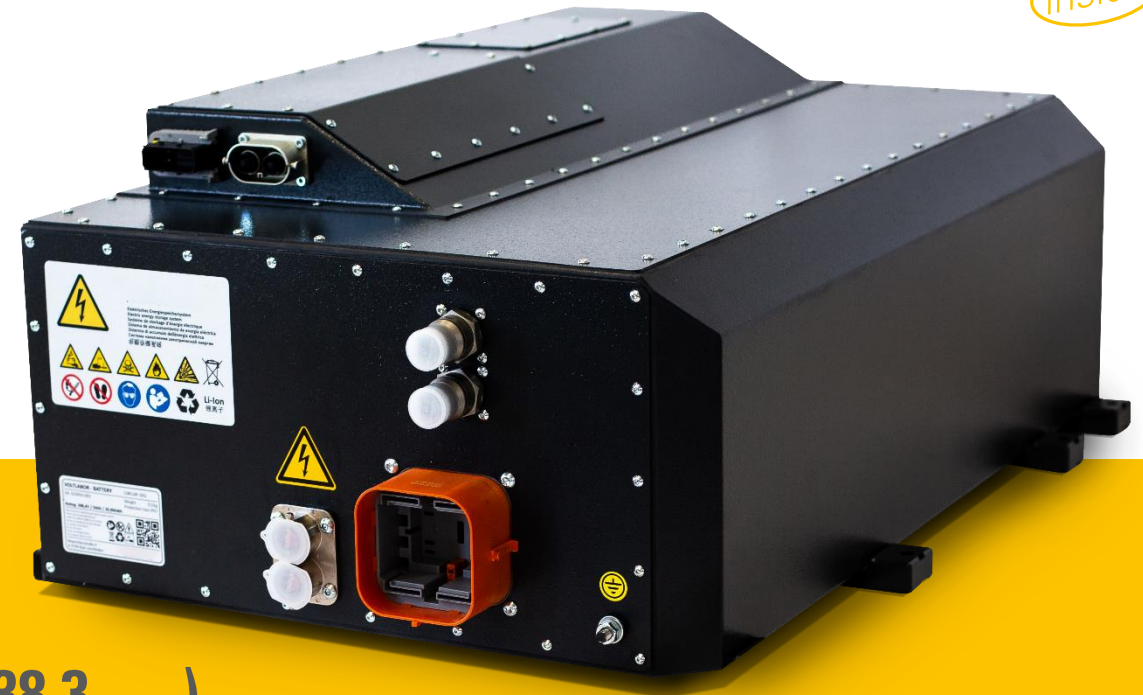


Our testing competence center

BATTERY PACK

KEY FEATURES

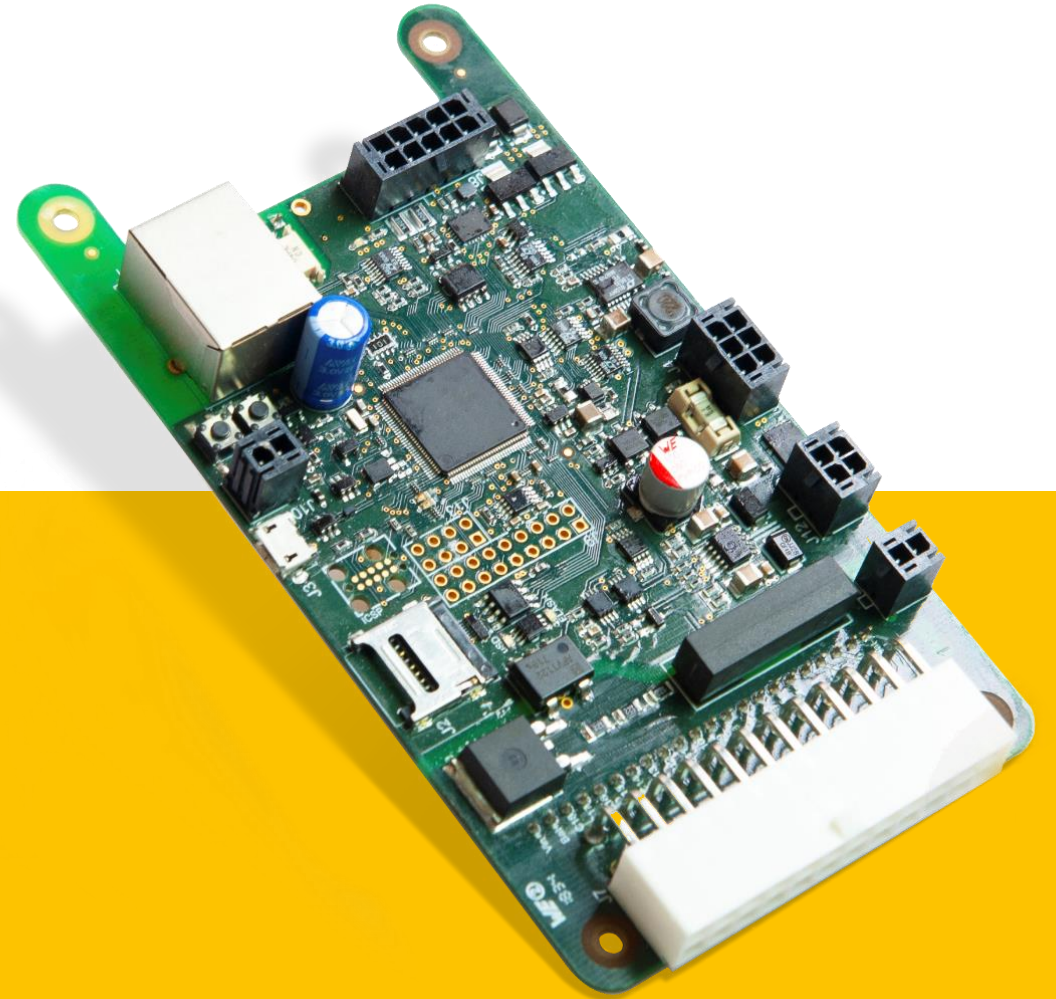
- Standard and customized packs available
- Voltage area from 48 – 800 V
- From high power to high energy applications
- FLEXcooler[®] inside
- Automotive standards (ECE R100 certified, UN38.3,.....)



BATTERY MANAGEMENT SYSTEM

KEY FEATURES

- More than 10 years of HW & SW development experience
- Miba Battery Systems UNIVERSAL BMS solution **from serial production**
- Highest flexibility & **easy adaption**



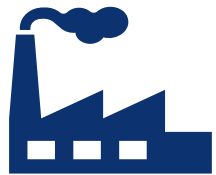
WHAT IS UNIQUE about the VOLTfactory® concept?

WE do have all the critical competences within the company

- Development and design of the battery pack
- Testing
- Component competence
- Own Battery Management System (BMS)
- Software development
- Industrialization of assembly lines
- Global production footprint



Facts on the VOLTfactory #01



Office

~ 1.000 sqm

Shopfloor

~ 3.000 sqm

VOLTlabor®

~ 120 sqm testing competence center



VOLTjet #zero

The Pioneer line

(worldwide first line for cyl. cell connection)

VOLTjet #01

Automotive, Industrial

500 MWh (Module level)

VOLTjet #02

Automotive, Industrial

500 MWh (Pack level - planned)

VOLTjet #03

Motorbike

~100 MWh



Logistic

Autonomous guided vehicle

VOLTfactory® - From concept to reality



... the setup of the VOLTfactory®

SUMMARY

- Austria's first VOLTfactory® started operations
- We **ENERGIZE LIFE** – and contribute to a 100% sustainable mobility

WE ARE PART OF BIGGEST EUROPEAN BATTERY PROGRAM

an important project of common
european interest

Project name: "EuBatIn – European
Battery Innovation"



Funded by:

 Federal Ministry
Republic of Austria
Climate Action, Environment,
Energy, Mobility,
Innovation and Technology

ENERGIZE LIFE

Miba Battery Systems



Contact:

Miba Battery Systems GmbH
Maximilian Str. 4
4190 Bad Leonfelden
AUSTRIA

+43 7213 20 400
batterysystems@miba.com
www.mibabattery.com