

# SONNENSCHN LITHIUM MATERIAL HANDLING SOLUTIONS

MOVE MORE GOODS – FASTER!



# SONNENSCHN LITHIUM SOLUTIONS MORE THAN JUST A BATTERY

## Material Handling Battery: move more goods – faster!

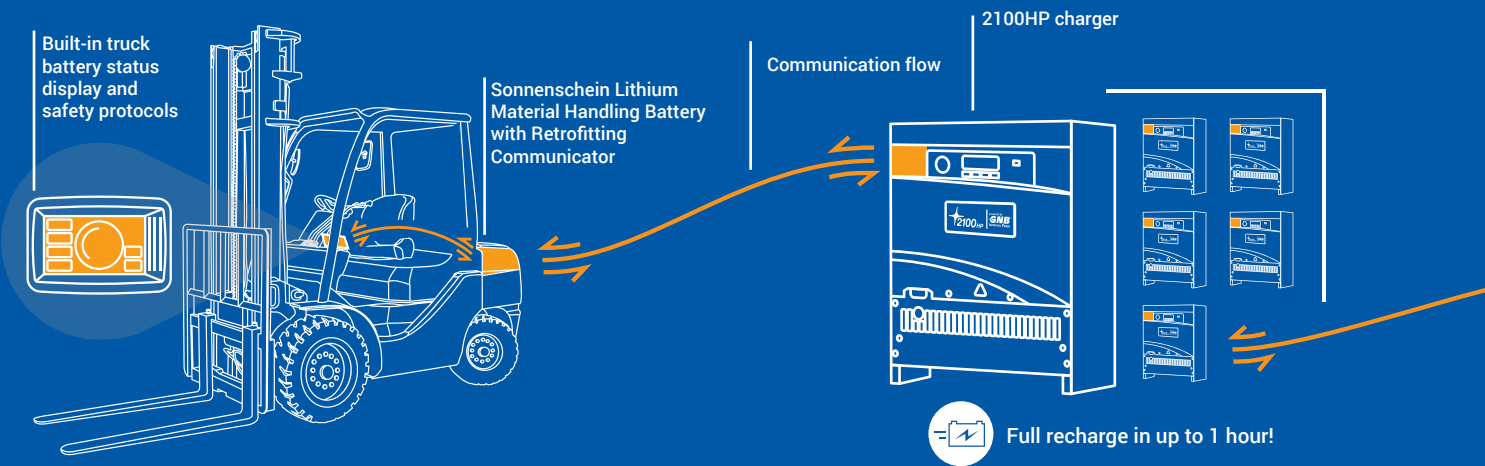
Our new Sonnenschein Lithium Material Handling Batteries were designed to match your demands. With a clear focus on enhancing your fleet's runtime and optimizing total cost of ownership, they keep your business up and running. With one fully charged Sonnenschein Lithium Material Handling Battery, you can enjoy up to 33% more pallet movements compared to other available systems!

An integrated monitoring system summarizes all relevant data in automatic executive reports. A traffic-light system allows potential problems to be quickly identified and corrected, saving users money and significantly increasing uptime of vehicles and batteries. Your investment is further protected by deep discharge protection and state-of-charge reporting, helping you achieve the lowest total cost of ownership.



### YOUR BENEFITS

- Up to 10% better total cost of ownership
- Up to 33% more pallet movements
- 25 vehicles = average €500,000 operational savings



## Charger and battery from one manufacturer are matched to perfection

Our chargers are specially designed for GNB batteries and are GNB Fleet® ready. We know that space and time equal money in your warehouse, so we provide highly efficient charging at the lowest energy costs with the highest power and smallest footprint. Our high-performance charger offers 24% more power per cubic meter than other systems. Space-saving, back-to-back installation leaves valuable room for your business. The perfectly matched charger and Sonnenschein Lithium Material Handling Batteries support fast and multi-opportunity charging, with a full recharge in just 1 hour.

Our weatherproof and dustproof chargers may be installed at the point of use, saving valuable time spent driving to a central, remote charging station – generating up to 52 extra days of annual uptime for an average fleet. Your operators will also benefit from the user-friendly display and multi-language options.



### YOUR BENEFITS

- 24% more power per cubic meter than other systems
- Up to 52 days of extra uptime through charging at point of use
- Full charge in just 1 hour

# GNB FLEET® UP YOUR UPTIME

## Let your equipment call you before it's too late

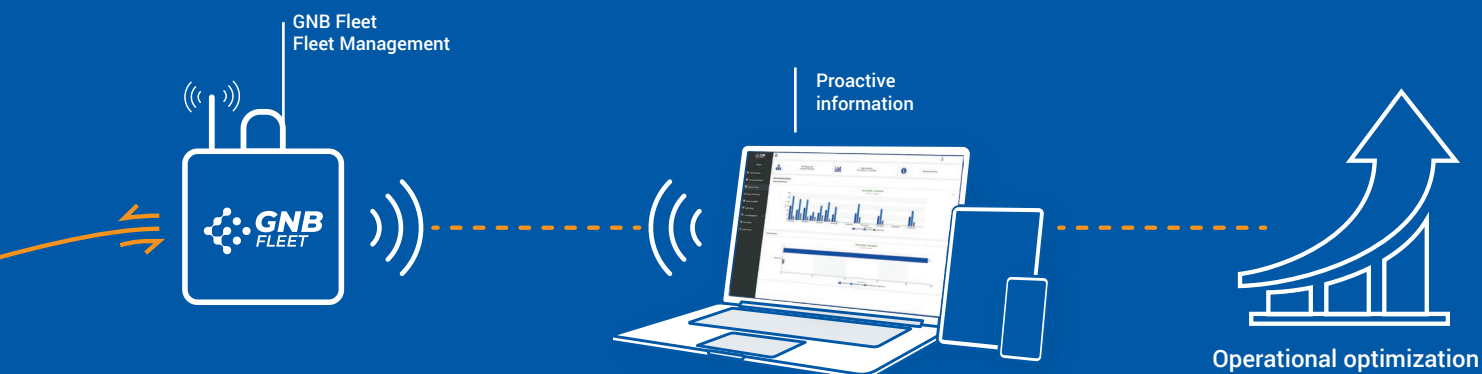
GNB Fleet® means maximum fleet uptime. Whether you have one site or many, our smart connected chargers provide GNB Fleet® with vital battery and charger information. Our next generation of fleet management detects issues with batteries or chargers well before your business is affected. Why wait until it's too late and a battery or charger has reached the end of its life?

Once your batteries and chargers are online with GNB Fleet®, they may request Service on themselves. This keeps your intralogistics running at all times. Alternatively, site and shift managers may receive email alerts, enabling preventive servicing and other countermeasures. Let your equipment call you before it's too late. GNB Fleet® ensures constant and reliable material handling in all your warehouses at all times. Thanks to our secure cloud solution, your data is accessible from any of your devices at any time.

Analyzing your data may also reveal optimization potential, e.g. energy management to reduce your operational expenses. We offer several GNB Fleet® versions, from a rotation system for equal battery usage to the most sophisticated multi-site management.

### YOUR BENEFITS

- Monitoring of battery and charger vital parameters
- Automated alarm emails for logistics management
- Corrective actions for maximum fleet uptime

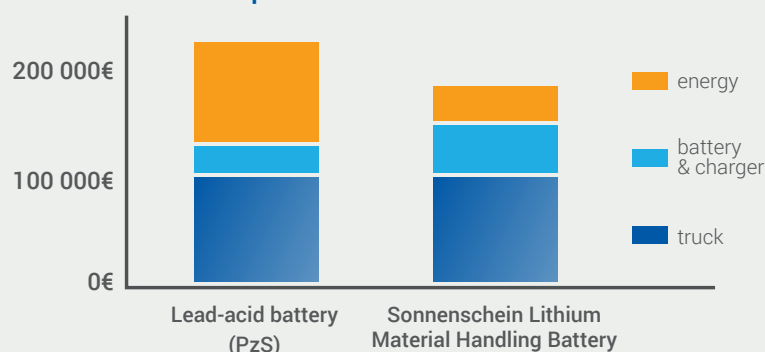


## Our quick-fit retrofit – Safe and simple

Sonnenschein Lithium has a reputation for robust real-world performance. When retrofitting lead-acid to lithium-ion technology, we understand that keeping it simple reduces stress for your operators. Our optional universal Retrofitting Communicator, installed conveniently and securely within the battery, transfers all relevant information through the truck's displays. There is no need for additional external displays in your vehicle anymore. Our Retrofitting Communicator allows use of the existing state-of-charge indicator installed by the truck manufacturer, as well as built-in low-voltage safety features such as disabling the lift function of the fork when needed. The system's safety and simplicity for your operators are unmatched on the market.

The advanced Sonnenschein Material Handling Battery continues Exide's achievement of the lowest total cost of ownership and the fastest retrofitting of lead-acid systems. We provide Sonnenschein Material Handling tray batteries in DIN dimensions and weights for convenient and ultrafast 1:1 replacements of lead-acid DIN tray batteries within minutes. Go Lithium now and benefit immediately from lower total cost of ownership – over €1,000,000 savings for an average-sized fleet!

### Total Cost of Ownership



### YOUR BENEFITS

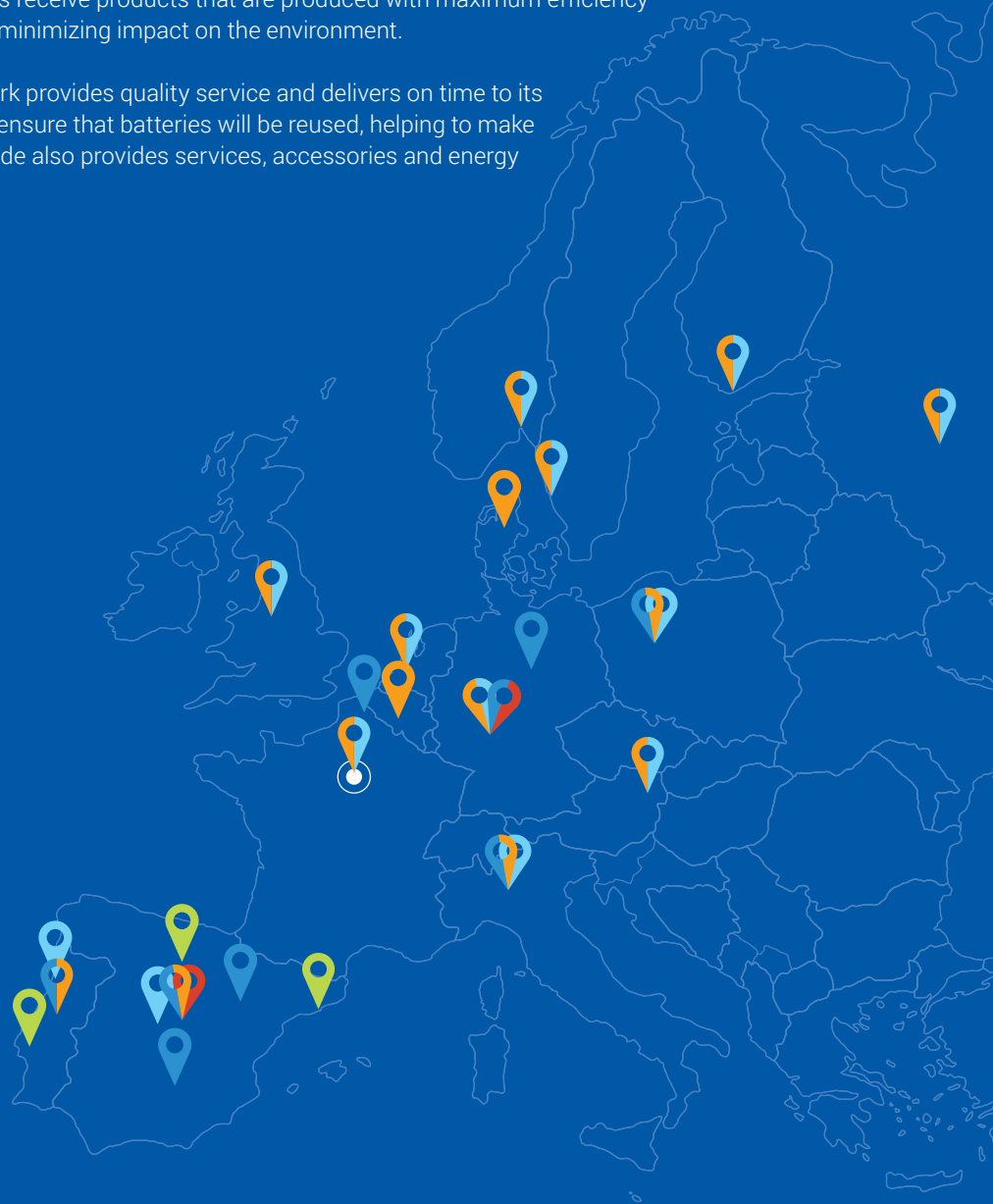
- Up to €45k savings per vehicle over battery lifetime
- 25 vehicles = €1,125,000 savings for average fleet
- Safe and simple retrofit – truck's displays and built-in low-voltage safety features up and running

**Exide Technologies**, with operations in more than 80 countries and more than 130 years of experience, is one of the world's largest producers and recyclers of lead-acid batteries. The company develops state-of-the-art energy storage solutions for the automotive and industrial market. Leading car, truck and lift truck manufacturers trust in Exide Technologies as an original equipment supplier. Exide also serves the aftermarket through a portfolio of successful and well-known brands.

Exide Transportation manufactures batteries for light and commercial vehicles, as well as agricultural and marine leisure applications. Industrial markets – under the division **GNB Industrial Power** – include efficient energy storage solutions for motive power applications such as lift trucks, cleaning machines and other commercial electrical vehicles, and network power applications such as telecommunications systems, renewables, and uninterruptible power supply (UPS).

Exide's engineers have always been at the forefront of bringing important innovations to the industry. Exide's ISO/TS-certified manufacturing facilities ensure that customers receive products that are produced with maximum efficiency and fulfill the highest quality standards, while minimizing impact on the environment.

Exide's extensive sales and distribution network provides quality service and delivers on time to its customers. Its world-class recycling facilities ensure that batteries will be reused, helping to make a positive contribution to the environment. Exide also provides services, accessories and energy consulting to its clients.



-  European headquarter
-  Manufacturing plants
-  Recycling plants
-  Distribution centers
-  Main sales offices
-  R&D centres

Manufacturing plants ISO 9001 and ISO 14001 certified

Automotive plants IATF 16949 approved