



CASE
STUDY



1 | Challenge : Double area needs double power

The logistics company NX Logistics Europe needed an extension to its charging station and a new and improved changing concept, especially for large batteries, due to growing requirements.

In 2021, the German logistics industry had a turnover of around 294 billion euros. The companies that account for the largest share of this are not only characterised by optimal management of their fleets and logistics centres, but also usually have huge storage areas. This in turn requires large forklift fleets, which need to be appropriately equipped and constantly available.

This appealed to NX Logistics as well: the transport service provider had to double the warehouse space to 60,000 m² in a relatively short space of time - the fleet of reach trucks therefore had to be increased in

performance accordingly. The charging and changing station that had been in place for 12 years was to be replaced in order to be able to charge more and larger batteries; for the same reason, the electric battery changer was to be replaced by a newer model. The existing power strip could not be replaced, which meant that the new concept had to be adapted to it.

As HOPPECKE had already equipped the customer with over 60 batteries for industrial trucks and various charging stations in the past, this project was also to be carried out with our support.

Doubled space of
the logistics hall
to 60,000 m²

New concept
for battery change

Adaption
of the solution
to the power strip

More output
capacity
required



Martin Franke
HOPPECKE Motive Power

„ Even large batteries can be moved quickly and without much effort thanks to the changing trolley.“

No crane needed thanks to changing trolley

Enlarged charging station with 11 slots

Space-saving wall installation of the station

High safety of the user

2 | Solution : Modular charging station with efficient battery change

After several discussions with the NX Logistics, it was possible to achieve increased efficiency, particularly with an enlarged charging station.

The primary aim was to increase the performance of in-house transport by expanding the charging station. HOPPECKE installed the trak | Xcharge BS charging station including a busbar with 11 spaces. The station consists of several charger pedestals that are mounted on the wall with a plug holder.

HOPPECKE complemented all this with the trak | Xchange PU changing trolley. With its electrical functions, this can not only lift the batteries forwards and backwards, but also move them accordingly, making the use of a forklift truck or crane superfluous. The roller conveyor facilitates battery replacement and reduces the time required for this. The built-in battery fuse increases user safety.

The high level of user-friendliness of the previous system was one of the reasons for using the same models as before. The sturdy construction of the racks also allows them to be moved to another hall in the future without any great effort.

The modularity and flexibility of the charging station reduces investment and energy costs in the long term, as the amount of space can be easily increased. If required, the station can be expanded to include a monitoring system, which ensures optimum charging and utilisation of each individual battery and increases the transparency of work processes.

After more than 20 years of successful collaboration, NX Logistics was able to put its new charging station into operation on completion of this project and easily manage the extended storage area with its fleet. The battery changeover remained fast, safe, simple and user-friendly as desired.

Key Benefits

- Modular charging station allows customised expansion
- Saves time when changing batteries thanks to electric change trolley
- Shelving can be moved without effort
- Battery fuse increases safety in the workplace
- Increased fleet performance thanks to faster and easier charging options

3 | Products :

- ▶ Charging racks: [trak | Xcharge BS](#)
- ▶ Changing trolleys: [trak | Xchange PU](#)



Bontkirchener Straße 1, 59929 Brilon-Hoppecke, Germany

Tel: +49 (0) 2963 61-475 | E-Mail: motivepower@hoppecke.com | www.hoppecke.com



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