

Jungheinrich customer reference

Sustainable Li-ion power for Noerpel.



Good things come in small packages: This stacker has got what it takes.

The ERD 220i electric stacker truck from the Jungheinrich POWERLiNE is the most compact model in its class. During testing in the transshipment hall of transport and logistics service provider Noerpel in Ulm, it soon convinced Operations Manager Florian Harrer and his team that this was not the only thing it had to offer. The manoeuvrable truck scores points with its sustainable lithium-ion drive, extreme ease of use and impressive safety concept.

In a single flowing motion, the ERD 220i lifts a goods carrier, deposits it in another location and skilfully weaves its way to the now accessible pallet. It picks it up effortlessly, turns in silence, accelerates with a quiet hum and heads for one of the loading ramps. Space is in short supply in the Noerpel transshipment hall in Ulm. But then the compact ERD 220i doesn't need that much. What's sizeable about it is its performance, and that's exactly what Operations Manager Florian Harrer needs. "My employees process up to 5,000 packages over 24 hours in three-shift operation", he explains, proudly adding: "Our hall may not be the biggest within the Noerpel Group, but it has the highest goods throughput."

GIVEN A TRIAL RUN

The Noerpel Group is Southern Germany's leading transport and logistics service provider and the number-one exporter in Europe, with around 2,800 employees working across 18 locations in Germany and two subsidiaries in Switzerland. Noerpel has worked closely with Jungheinrich for many years. "We demand a lot from our trucks: they are in use 24 hours a day, six days a week, and must be available at any time. We have had the best experience both with Jungheinrich products and services", explains Harrer. "When it was proposed that we test the new ERD 220i electric stacker truck from Jungheinrich, we agreed straight away."

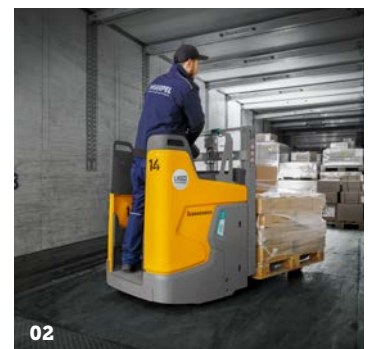
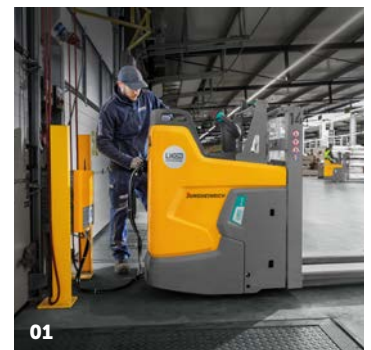
MANOEUVRABLE, COMFORTABLE, SAFE

The ERD 220i soon impressed Harrer and his employees during the test period: "The entire concept won us over." The POWERLiNE ERDi truck is roughly 30 centimetres shorter than the preceding model and is therefore the most compact stacker in its class. "Having a narrow chassis in the transshipment hall is a plus", explains Harrer, adding: "The ERD 220i has a top speed of 14 km/h and the trilateral protection of the stand-on platform makes it extremely safe. The truck safety concept impressed me overall." The ERD 220i uses a sensor to detect when it is in a lorry, for example. It switches on its spotlight automatically and reduces speed to ensure safety and comfort when crossing the ramp.

CHARGING DURING BREAKS

The lithium-ion battery integrated into the POWERLiNE ERDi fits perfectly into the Noerpel sustainability concept. "We are gradually switching over our transport and intralogistics vehicles to alternative drives", explains Florian Harrer, who is impressed that sustainability can be so practical. "The battery can be fully charged within 80 minutes. More importantly though, it can undergo booster charging again and again", he tells us. Jungheinrich has installed 30 rapid charging stations in the transshipment hall for this very purpose. "This makes it easy for my employees: simply put the plug in the socket before each break, and the truck is ready to use at all times." Noerpel has since switched its entire fleet of 30 trucks to POWERLiNE ERDi trucks. Harrer concludes: "The trucks are reliable, fast, agile, safe and they are making us energy savings of around 30 percent."

- 01** The rapid charging stations re-power the lithium-ion batteries within 80 minutes.
- 02** The ERDi uses a sensor to detect when it is in a lorry.





“ My employees are impressed by the power of the ERD 220i – and I’m impressed that they remain safe. ”

Florian Harrer

Operations Manager
of Noerpel’s Ulm transshipment hall

**We speak to
Florian Harrer,
Operations
Manager of
Noerpel’s Ulm
transshipment hall**

What are the specific challenges for intralogistics trucks within a transshipment hall?

Space is always really tight in a transshipment hall. The pallets are stacked in the entire hall in block storage at busy times, but are unloaded for onward transport at different times. It’s like playing Tetris, moving pallets that are in the way when an operator needs quick access to a particular package. We process around 5,000 packages a day in three-shift operation; that’s 24-hour operation, six days a week. The trucks run without interruption and must be able to cope with this. In addition to this, like all logistics companies we want to become more sustainable. Our fleet of 30 trucks with corresponding drives can help us to reduce our carbon footprint.

What benefits do you get from the POWERLINE ERDi trucks with integrated lithium-ion battery?

The drive concept spares my employees from having to change the battery and therefore having to deal with lead-acid batteries. We have 30 charging stations strategically positioned within our hall so that the operators can simply put their trucks on charge on the way to their break – i.e. at any time. Jungheinrich active load management makes sure that the right amount of power is flowing and that nothing is wasted. It’s an ingenious solution and, as a fan of technology, I’m impressed. Because the ERD 220i is more compact than its predecessor, we also don’t have to do as much repacking. It simply weaves its way through narrow passageways. My employees are impressed by its acceleration and power – and I’m impressed that they remain safe. The trilateral protection of the stand-on platform and the automatic speed adjustment keep things safe even at busy times.

And how do you rate the ERD 220i in terms of efficiency?

By using these trucks, we make energy savings of around 30 percent. I think that says it all.

THE PROJECT AT A GLANCE



Customer:

Noerpel Group

Sector:

Transport and logistics service provider

Company size:

2,800 employees

Location:

Ulm, Germany

CHALLENGE

Reduction of carbon footprint despite high truck utilisation in three-shift operation. High safety and comfort requirements due to narrow travel paths, dark cargo areas and loading lorries by ramp.

JUNGHEINRICH SOLUTION

30 POWERLINE ERD 220i electric stacker trucks with an integrated Li-ion battery plus 30 rapid charging stations and active load management solutions. Automatic speed adjustment and sensor-based spotlights to optimise safety.

RESULTS

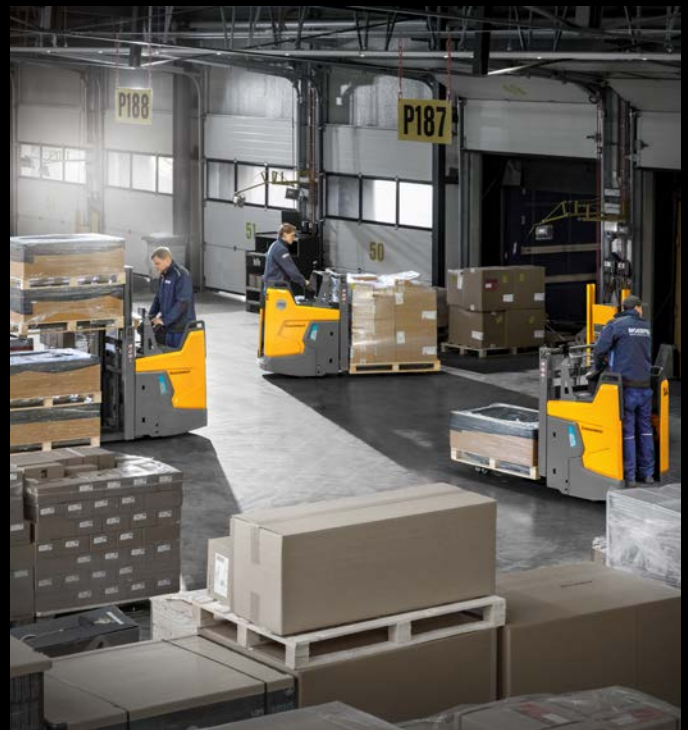
High fleet availability thanks to option for booster charging. Energy consumption still reduced thanks to active load management. Maximum safety standards to protect operators and goods.

IMPRESSIONS



Chargers intelligently networked with active load management.

Highly manoeuvrable for precision moving in tight warehouse environments.



The ERDi is the perfect choice for high goods throughput and little storage space.