



thyssenkrupp Plastics

When buying any new machinery or equipment we have a requirement that it should always be in the highest efficiency class, to help us cut our costs and be more sustainable as a business. Opting for Fronius charging technology was the obvious next step.

Mario Götte

Deputy Operations Manager at the Tornesch site



thyssenkrupp Plastics GmbH based in Essen is part of thyssenkrupp Materials Services and is a plastics supplier across Germany with a total of 18 sites. The company supplies customers all over Northern Germany with a broad range of plastic semi-finished products from its new logistics center in Tornesch near Hamburg, which was opened in April 2022. Seven four-way stackers working in two shifts control the intralogistics material flow. thyssenkrupp

started drawing up plans to increase safety in the warehouse units by means of safe charging spaces and centrally located first-aid modules together with Fronius at the beginning of 2021.

“Thanks to the free-standing Fronius charging modules, which are easy to install on the floor, all the essential first-aid equipment can be provided in clearly visible, strategic locations, without us having to use outer walls or storage racks,” explains Mario

Götte, Deputy Operations Manager. “Central information that is easy to find in an emergency forms an important part of our safety at work measures.”

While planning the project, it became clear to Fronius System Solutions that the Fronius Selectiva 4.0 battery chargers would also offer thyssenkrupp Plastics enormous added value: “The advantages of the battery chargers are their energy efficiency, the fact that they charge batteries

Customer Information

Company name	thyssenkrupp Plastics GmbH
Location	Tornesch near Hamburg, Germany
Industry	Plastics
Forklift truck brand	Jungheinrich
Type of battery	Lead acid
Fronius portfolio	Selectiva 4.0, System Solutions

gently to preserve their service life and get more out of them than the 50 Hz devices as well as other high-frequency chargers. This makes Fronius products much more efficient."

The Fronius I-SPoT energy efficiency calculation and the short payback time associated with the chargers were sufficiently impressive to convince the planning group and the management of thyssenkrupp Plastics to opt for Fronius products.

During the move to the new site in Tornesch, the team was confronted with additional



challenges together with the Fronius charging experts. In order to increase safety at work and minimize the fire load, the charging station had to be positioned away from the storage racks. A free-standing, island solution was developed with Fronius to overcome these challenges. A special solution based on the Fronius charging module 2000 was designed with an overall height of 2.70 m to allow the power cables to be safely run above the modules via a cable bridge.

Safe handling of the charging plugs is ensured using spring balancers on pivotable booms, allowing the charging cables to be suspended ready for use and kept out of the Ex zone of the battery. In addition, bumpers protect the charging station from collision damage.

"It's a clean, tidy design with no battery chargers on the floor, nothing colliding with them, plus it looks great. The visuals play a big role for our employees too," adds Mario Götte.

„Central information that is easy to find in an emergency forms an important part of our safety at work approach.“

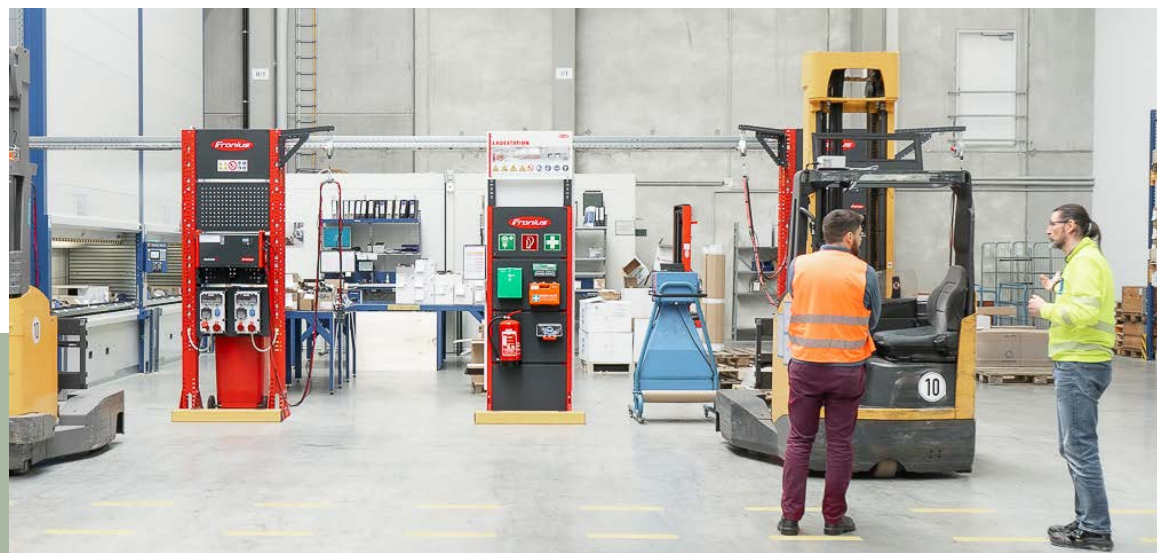


The LED strips on the battery chargers that are easy to see from a distance instantly show the employees at the Tornesch site which batteries are ready for use again.

“It’s the easiest technology we’ve ever had; there’s practically nothing I need to do anymore, just plug in and out again once the battery’s finished charging. There’s nothing complicated to program on the device.

The external start/stop function has also been well received by colleagues and gives us peace of mind.”

What’s more, a customizable Fronius charging rack solution also forms part of the package, making things even safer in the logistics unit in Tornesch. This allows employees to easily and safely house third-party devices thanks to handy perforated plates and Fronius holders.



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