

# German Mobile Energy Storage Container High-Pressure Type



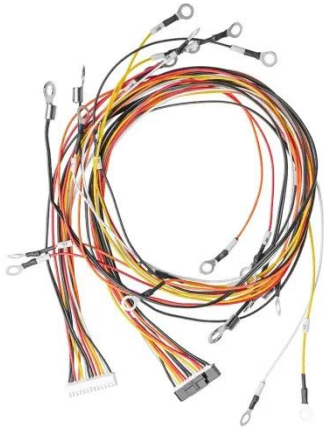
## Overview

---

The project is supported by the German Federal Ministry for Economic Affairs and Climate Action (BMWK) as part of its hydrogen technology offensive. The MEGC stands out as the first 500-bar container approved for rail transport, offering a significantly increased load capacity of. An interview with Felix Kuke, head of the ZenaLeb project group, and Lucas Ost, the team's research assistant The ZenaLeb project group at Fraunhofer IAP is developing nearly spherical high-pressure tanks that can store hydrogen at 300 bars. This is being done as part of the TransHyDE project. DB Cargo BTT, together with Hexagon Purus, Endress+Hauser, Infracore Höchst and Fraunhofer IML, has developed a new solution for the safe and sustainable rail transport of gaseous hydrogen. Pressurised hydrogen storage can take place in steel tanks or tanks made of a composite material. The Tenaris Thera™ product portfolio embraces solutions that span from efficient and reliable high pressure hydrogen storage vessels, innovative modular linear. Whether stationary as a storage solution (PED) or mobile for transport (TPED), COSMOS stands for maximum safety, scalability, and efficiency under high pressure. The COSMOS Stationary Bundle (PED) provides compact and safe storage of hydrogen, CNG and industrial gases — built with heiserTEC Type 1.

## German Mobile Energy Storage Container High-Pressure Type

---



### Hydrogen storage , TÜV NORD

Small to medium-volume gas tanks in metal construction are used for above-ground pressurised gas storage. Tubular storage tanks embedded in the ground enable high nominal pressures and the ...

### DB Cargo unveils high-pressure hydrogen container for rail transport

The MEGC stands out as the first 500-bar container approved for rail transport, offering a significantly increased load capacity of 1,223 kilograms. One train equipped with these units can ...

### FLEXIBLE SETTING OF MULTIPLE WORKING MODES



### PEM electrolyzer (2-50 MW): modular and scalable

Durable, high-performance stacks made in Germany. Effective scaling through 2, 3 or 5 MW module design. Short start and shutdown times, which facilitates load management & grid adaptation.



### Hydrogen storage systems - Tanks ,

## Rheinmetall

Rheinmetall's 380 bar Hydrogen Pressure Type IV Tank System represents a cutting-edge solution for high-pressure hydrogen storage and is also available in other pressure levels upon request.



## Transporting H2 safely in mobile high-pressure tanks

Our goal is to develop high-pressure-resistant tanks that offer an innovative solution that not only meets current standards but also fulfills future requirements.

## Mobile Container Energy Storage: Powering the Future of Flexible Energy

From temporary power needs to permanent grid support, mobile container energy storage offers unprecedented flexibility in our energy-hungry world. As renewable adoption accelerates and power ...



## Development of a Spherical High-Pressure Tank for Hydrogen Storage

...

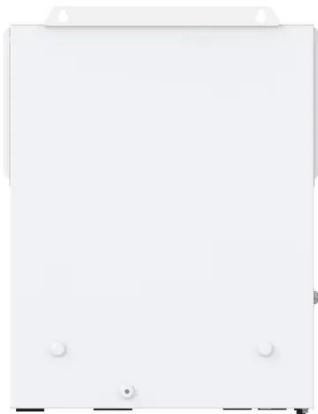
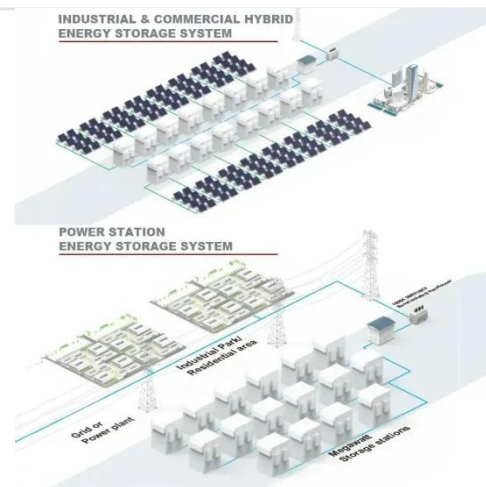
In the sub-project Mukran of the BMBF-



funded flagship project TransHyDE, spherical and nearly spherical-shaped (isotensoids with short cylindrical spacer) high-pressure tanks are ...

## COSMOS High-Pressure System , Hydrogen Storage & Transport

With the COSMOS high-pressure system from heiserTEC, we offer a modular solution that is used worldwide in energy projects, research facilities, and industrial applications.



## High Pressure Hydrogen Storage Solutions

Tenaris THERA™ portfolio covers a wide range of high pressure applications, with hydrogen storage masses ranging between a few kilograms for individual pressure vessels, up to several tonnes for ...

## Contact Us

For catalog requests, pricing, or partnerships, please visit:  
<https://scelto.co.za>

