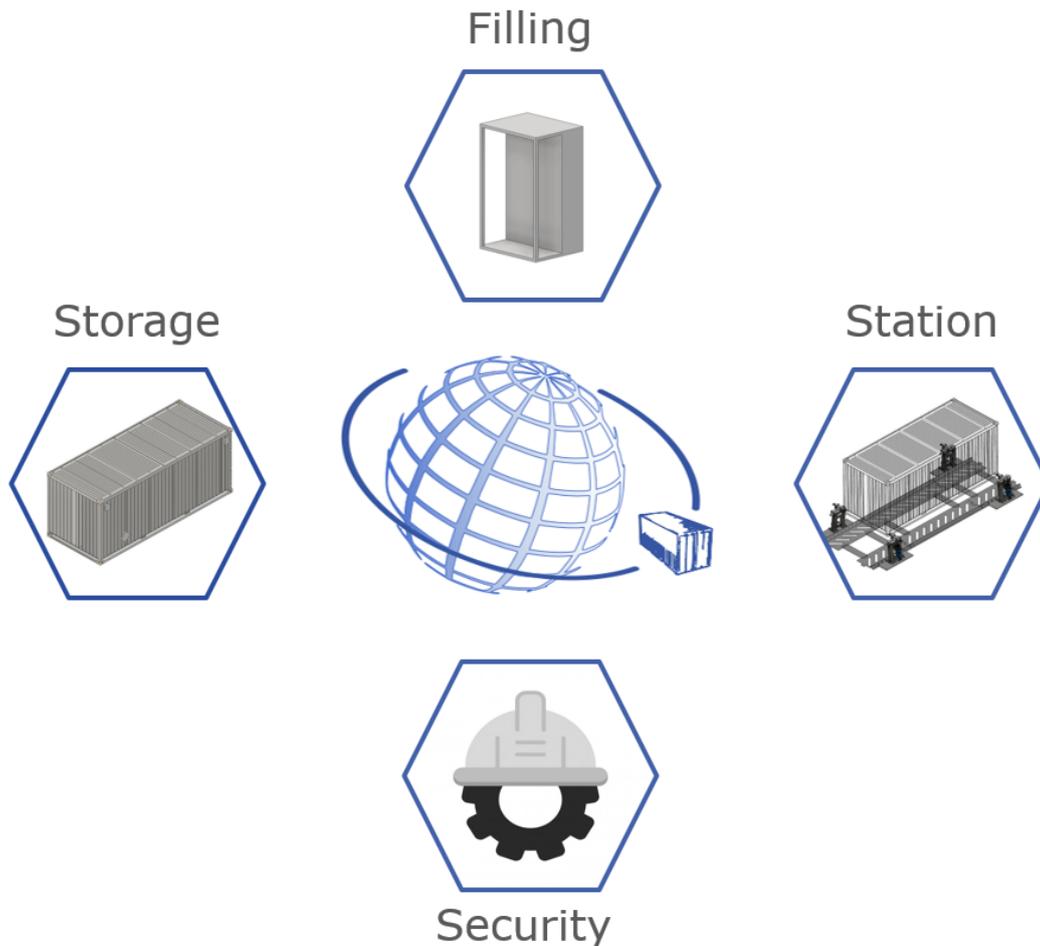


VERNCONEX | Turnkey solution for containerized hydrogen logistics

The Vernconex logistics system is based on four basic elements for safe and efficient hydrogen supply operations.



With its innovative design and standalone features, this solution fits perfectly into your ecosystem and enables you to operate securely.

« I believe that water will one day be employed as fuel, that hydrogen and oxygen which constitute it, used singly or together, will furnish an inexhaustible source of heat and light, of an intensity of which coal is not capable. »

Jules Verne, 1877



Storage:

The storage solution is based on a system of standard 20-foot mobile containers that can store about 350 kg of hydrogen at 350 bar.

This system consists of three segments that allows cascading gas control, increasing the possibilities of utilization.

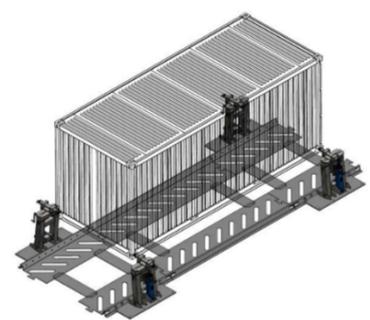


Certification:

- TPED, ADR/RID
- EN 13807
- ISO 668
- EN 12245

Station:

Docking stations enable quick removal and loading of the storage containers. This component provides the mechanical support for the system.



Certification:

- EN 283
- ISO 668
- ISO 1161
- EN 1991-1-4

Filling and consumption:

The filling and consumption panel enables the control of the storage tank via simple interfaces. This component ensures the monitoring as well as the control of your storage tank.



This component is a standardized solution that can be adapted to the needs of the facility to which it is connected. It is possible to add certain options necessary for operation if they are not available on your station.

Engineering and security:

Each production and/or consumption station is unique. Due to the supplier, location and local regulatory restrictions, an analysis of the situation is necessary. Our team of experienced engineers will support you and offer adaptations to the standard system if required.

References:

The logistics system used by [Hydrospider AG](#) in Switzerland is the world's first to be designed for the large-scale distribution of hydrogen by container.



The first commercial application served by this system is a fleet of [Hyundai](#)-produced heavy-duty trucks, as well as private cars, that refuel at these distribution points.



In addition, the first filling station built as part of the [H2Haul](#) project is equipped with a logistics system from Vernconex.

Partners:



[H2Energy AG](#) is a Swiss company and a key innovator in the field of renewable Hydrogen solutions worldwide. Together with its industrial partners H2Energy is a key contributor to [Hydrospider](#) in Switzerland where a nationwide Hydrogen ecosystem is being built up. H2Energy also collaborate with [Hyundai Motor Company](#) to market hydrogen-powered trucks in Europe.

MAXIMATOR® Maximum Pressure.

[Maximator GmbH](#) is a technology leader in the field of high-pressure technology. For more than 40 years, Maximator develops, designs, and produces everything from components to complex systems and even entire infrastructures. As well as high-pressure pumps, high-pressure compressors, valves, hydraulic units and gas compressor stations, the range of services also includes autofrettage systems, impulse test stands, systems for gas and water injection, and hydrogen compressor system. The portfolio is supplemented and extended by systems for hydrogen refueling and testing of hydrogen components. Based in Nordhausen, Germany, Maximator employs more than 400 staff.



[UMOE](#) ADVANCED COMPOSITES (UAC)

UAC is the leading global supplier of large type IV glass fibre pressure vessels, as well as transportation and storage modules for compressed Hydrogen. UAC's team of industry experts consists of highly skilled professionals that hold more than two decades of experience in composite technology development and manufacturing from industrial energy, shipping, and innovation sectors. Umoie Advanced composites has its head office and manufacturing in Kristiansand, Norway.