

HydrogenCube™ Modular Hydrogen Storage Systems



HydrogenCube™ Lightweight Mobile Storage Systems

Compact systems designed for easy transport on small flat-bed trucks, Sprinter vans, and pickups, these mobile-ready units feature quick-connect filling and discharging receptacles at one end for ease of operation. Ideal for fleets and remote hydrogen storage, HydrogenCubes are easily swapped for full units.

HydrogenCube Plus™ Lightweight Multiple-Element Gas Containers (MEGC)

Mounted to a high-strength steel framework, these mobile-ready units feature quick-connect filling and discharging receptacles at one end for ease of operation. To ensure safe and reliable operation, vessels are connected to the pressure line via isolation valves, pressure regulators, and thermal-relief devices. The container and contents are fully corrosion resistant and ready for most demanding environments.

Features & Specifications:

- Modular in height, array configuration as well tank type (III or IV) are interchangeable
- A single tank or arrays of tanks can easily be replaced without dismounting the entire MEGC
- Design is optimized for highest strength, maximal hydrogen content and minimal weight following DOT requirements for safe operation on the road.
- Quick-connect filling and discharging receptacles customizable to customer needs
- Pressure line isolation valves
- Thermal and pressure relief devices
- Easily handled by forklift or crane
- Flat rack compatible
- Container and all contents designed for corrosion resistance in highly demanding environments including desert and marine

Model	Pressure	Capacity
HydrogenCube Mini	345 Bar	up to 100 kg
HydrogenCube Mobile Flex	345 Bar	up to 800 kg
HydrogenCube Ground	350 Bar	up to 665 kg
HydrogenCube Ground Plus	552 Bar	up to 925 kg

Mobile Flex, Ground, and Ground Plus configurations available in 10', 20' and 40' options.



Certifications:

- Pressure Vessels:
 - US DOT (per UN/ISO 11119-2)
 - CE-PED - Module B and D
 - DNV Technology Certificate
- Container system:
 - US DOT-SP (Pending)
 - ASME (Pending)

Why Steelhead for Hydrogen Storage?

Steelhead is an ISO 9001:2015 company offering the technology, advanced products, and design experience to meet the needs for hydrogen storage in any application.

We offer containerized solutions for storing hydrogen at pressures at 345 bar (5,000 psi) to 552 bar (8,000 psi) designed from the ground up to meet challenging performance-based regulatory standards to ensure reliable performance over the long haul.



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