20 ft Multiple Element Gas Container (MEGC)

The 20 ft Multiple Element Gas Container (MEGC) is a smart hydrogen storage and logistics solution from 38MEGAPASCAL, an H2 Energy company. FORVIA and H2 Energy join forces to realize an innovative H2-storage container for the safe transportation of pressurized hydrogen. The container is a certified product for ADR and RID applications and can be integrated into any efficient logistics system.

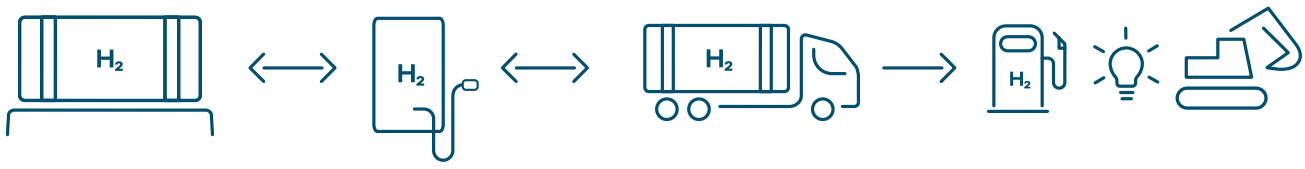
The containers consist of 3 banks which can be controlled individually. The cylinders are protected against fire and overpressure.

The 20 ft ISO compatible container can store 465 kg of hydrogen at 380 bar. A 40 ft version with near 1 ton capacity is also planned.

MEGC container on secure docking station

Interface Panel for filling/emptying containers

Efficient H2 delivery



- Optimized logistic concept
- Container exchange in 15 minutes thanks to smart and efficient docking station / filling panel
- All handling done by driver
- Filling panel to check MEGC keydata, leak test, hose flushing
- Controlled filling speed
- Automated operation
- Integrated safety functions

Specifications [1]	Unit	20 ft MEGC	40 ft MEGC
Working pressure [2]	bar	380	380
H2 capacity (total)	kg	465	950
# of banks		3	3
# of cylinders		48	98
Cylinder type [3]		III	III
Cylinder manufacturer		FORVIA	FORVIA
Gross weight	t	<14	<28
Dimensions (W × L × H)	m	2.5 x 6.1 x 2.7	2.5 x 12.1 x 2.7

[1] Specifications are preliminary and non-binding
[2] At 15°C
[3] Metal liner with composite wrapping

Get in touch for more information:
info@h2energy.ch

H2energy

We are H2 Energy, a Swiss company specialized in the development and implementation of hydrogen technologies, products and ecosystems. We provide services to support the production, storage and logistics of green hydrogen and engage with our partners to integrate hydrogen based solutions into energy and mobility applications. Through our products and services we aim to support the transition towards a sustainable and emissions free future.