CMB.TECH

500BAR MOBILE REFUELLER

POWERED BY HYDROGEN

CMB.TECH'S HYDROGEN REFUELLING TECHNOLOGY

CMB.TECH have developed a 500bar trailer to facilitate remote refuelling for all of our applications currently in operation. Multiple use cases and customers can be serviced with this single system. The trailer enables:

- Refuelling to be brought directly to on road and off-road vehicle fleets, rather than the individual vehicles making diversions on operating routes to refill at a standard refuelling station.
- Refuelling to be brought directly to hydrogen powered vessels, facilitating fast refuelling times for large quantities of hydrogen, whilst also providing the required common ship to shore shut down systems.
- Hydrogen supply for genset applications, where the trailer can be parked up for extended periods of time, supplying low pressure hydrogen to clean CMB.TECH gensets.
- Industrial gas customers to off take large quantities of hydrogen, using their existing 200bar trailer connection systems.
- Cascade system able to deliver 600kg of H_2 at 350bar or 945kg at 15bar for genset use.

SAFETY

- Common ship to shore shut down system (ESD)
- Manual isolation valves
- Automatic shutdown valves
- Pressure regulator (reducing outlet pressure from 500bar to 350bar) for refuelling applications
- Downstream pressure regulator (reducing outlet pressure from 350bar to 7bar) for connection directly to CMB.TECH gensets
- Shut off valves if any of the regulators fail

KEY FEATURES

- 90x Type IV 350L H_2 cylinders
- Total water capacity of 31.500L, split into 7 sections
- Inlet : 300 bar and 500 bar
- Outlet : 7 bar, 200 bar and 350 bar
- 945kg usable H_2
- Dispensing 600 kg at 350 bar, 945 kg for genset use
- High flow TK16 & TK25 dispensers for 350bar applications, connected to 25m hoses
- 7 bar outlet for gensets
- Equipped with Ship-to-Shore ESD system
- Automatic cascading system for fast & efficient refuelling operations

SPECIFICATION

TRAILER

Construction	-	MEGC
Length	-	12.192 mm
Width	-	2.438 mm
Height	-	4.000 mm
Weight	-	30.000 kg

TANKS

Quantity	-	90
Usable Capacity Per Cylinder	-	10,5 kg at 500 bar
Min. Working Pressure	-	10 bar
Max. Working Pressure	-	500 bar
Max H_2 delivered at 350 bar	-	600 kg
Temperature Range	-	-40 to +65°C

WE BRING HYDROGEN TO THE INDUSTRY

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