

HyFill™ Bulk Hydrogen Transport Trailers

High-pressure, high-capacity gas transport trailers move more hydrogen in a smaller & lighter package, maximizing driver productivity.



Making Hydrogen Easy

BayoTech™ is an established leader in the design and manufacture of high-pressure, cylinder-based gas storage and delivery equipment. Our high-capacity gas transport trailers carry up to three times more per load than traditional steel-tube trailers. Higher payload means more sites can be refueled from each trailer, lowering transportation costs and increasing driver productivity.

Composite cylinders provide a lightweight, high-pressure package for storing compressed gases with pressure up to 7,500 psig. Compact 27' trailers carrying 500 kilograms of hydrogen are designed to fit tight spaces and are ideal for delivery to hydrogen refueling stations. Larger 40' and 52' trailers maximize payloads carrying 750 kilograms of hydrogen or more per load for industrial gas delivery.

Cylinders are fitted with a proprietary valve controlled via a pneumatic actuator. An operator control panel allows access to specific cylinder rows at ground level, enabling cascade filling without climbing the trailer bed. This technique enables the filling of significantly more storage tanks to higher fill pressures and greater hydrogen optimization from the transport trailer.

Best in class safety features include emergency shutdown systems, thermally-activated pressure relief devices, and welded manifold connections to mitigate potential manifold leaks.

FEATURES

- » Pod-mounted cylinders for flexible capacity
- » Lightweight, high-capacity Type III cylinders (aluminum liner wrapped in carbon fiber; non-permeable liner)
- » Compact footprint for easy access to refueling sites
- » Allows for cascade filling
- » Industry-leading safety features
- » High temperature cylinders (up to 120°C)

APPLICATIONS

- » Industrial gas delivery
- » Delivery/storage for hydrogen refueling stations
- » Mobile refueler for hydrogen storage packs

HYFILL™ BULK HYDROGEN TRANSPORT TRAILERS

	Tandem 450	Tridum 450	Quadrum 450	Tandem 520	Tridum 520
Working pressure	450 bar / 6,525 psig		450 bar / 6,525 psig	520 bar / 7,500 psig	
Cylinder water volume	315 ltrs / 11.1 scf				
# of cylinders	50	75	80	50	75
Total water volume (scf)	550.0	825.0	880.0	550.0	825.0
Hydrogen capacity (scf)	193,900	290,850	310,240	212,300	318,450
Hydrogen capacity (kgs)	458.4	687.6	733.4	501.9	752.8
Tare weight (lbs)	40,700	59,800	62,300	41,700	61,300
Gross weight (lbs)	41,708	61,313	63,914	42,804	62,956
Pod dimensions (WxHxL)	72" x 78" x 132"	72" x 68" x 132"	72" x 36" x 132"	96" x 96" x 132"	96" x 96" x 132"
Trailer dimensions (WxHxL)	8' x 12' x 27'	8' x 12' x 40'	8' x 12' x 52'	8' x 12' x 27'	8' x 12' x 40'

Specifications are subject to change without notice. Updated 1/2022.

FOR MORE INFORMATION, OR TO CONTACT US,
PLEASE VISIT WWW.BAYOTECH.US