

HyFill® Bulk Hydrogen Transport Trailers

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



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’ trailers maximize payloads carrying 730 kilograms of hydrogen 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®	Tandem 450	Tandem 520	Tridem 520
Working Pressure	450 bar / 6,525 psig	520 bar / 7,500 psig	520 bar / 7,500 psig
Cylinder Water Volume	320 liters / 11.3 scf	315 liters / 11.1 scf	315 liters / 11.1 scf
# of Cylinders	40	50	75
Total Water Volume	12,800 liters / 454 scf	15,750 liters / 555 scf	32,625 liters / 833 scf
Hydrogen Capacity	366 kgs / 154,575 scf	501 kgs / 211,690 scf	731 kgs / 318,525 scf
Tare Weight (lbs)	35,000	41,100	55,000
Gross Weight (lbs)	36,000	43,100	56,000
Pod dimensions (L x W x H)	131" x 102" x 78"	129" x 96" x 102"	129" x 96" x 102"
Unit Dimensions (L x W x H)	324" x 102" x 150"	324" x 96" x 159"	480" x 96" x 159"

Footnotes
*All Hyfill products will require Semi truck with Kingpin connection.
*Some dimensions may be approximate.

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