

Hydrogen Storage Trailer 24 kg.



- 24 kg hydrogen capacity
- 200 bar storage pressure
- Owner driver with DG endorsement
- Total trailer weight under 3,500 kg
- Temperature and over pressure protection
- Price: **\$79,995** NZD¹

Cost effective solution for the collection and transportation of hydrogen gas. This hydrogen storage trailer puts control in your hands and offers flexibility and efficient storage for many hydrogen applications.

Benefits

- Save costs on hydrogen delivery
- Tow with a standard Ute
- High manoeuvrability
- Refill from current hydrogen suppliers

Applications

- Fuel for a hydrogen UPS or generator
- Fuel for FCEV refuelling
- Fuel for dual-fuel diesel vehicles
- Supply industrial processes
- Hydrogen gas blending projects
- Supply for science applications

Use Your Own Vehicle

As the technology and applications for hydrogen become more widespread, the running costs of these devices are heavily influenced by the final cost of the hydrogen fuel.

The cost of buying hydrogen is increased significantly with the additional transport and storage hire costs. With a hydrogen storage trailer, you can collect your own hydrogen and return to



your site without incurring these additional per kg costs (up to 50%).

With this hydrogen trailer, you can use a typical Ute and your own driver².

Made in Aotearoa New Zealand



We are pleased to say that this hydrogen trailer is made here in Aotearoa New Zealand. This brings with it the benefits of local expertise and access to technology and service staff in the same time zone, language, and industry understanding.

Safety

The HST-24-200 has many build-in mechanical safety features. These include:

- Safety check valves
- Mechanical overpressure safety valves
- Fusible plugs for temperature and fire protection

Warranty

Hydrogen storage products are relatively simple as far as components go. The following specific items are covered under the product warranty:

- 10 years on all hydrogen cylinders
- 5 years on all internal gas fittings
- 10 years on the trailer base frame

All these are subject to the routine wear and tear and use by the customer.

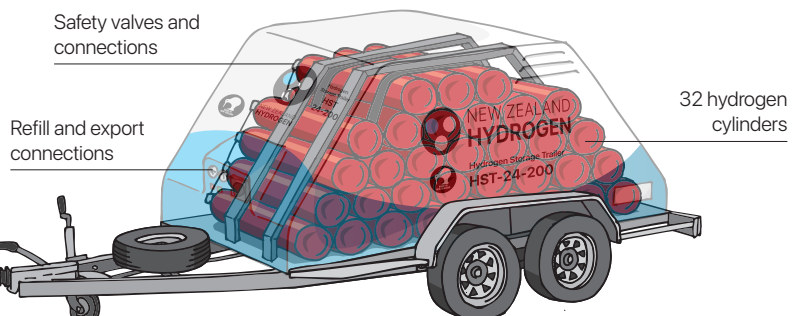
Service Plan

It is recommended that customers engage with New Zealand Hydrogen for annual service checks. This includes the following:

- Leakage and damage checks on all fittings
- Pressure gauge validation
- Cylinder fitting security
- Weather and environment protection

See Also

- Data Sheet: HST-48-400
- [Data Sheet: HVR-10-700](#)
- [Hydrogen Storage](#)



¹ All prices are subject to GST at the prevailing rate and do not include delivery, shipping, import/export taxes, or costs associated with site preparation and installation.

² The driver requires a valid Dangerous Goods endorsement on their driver's licence.

Finance Options

As an alternative to one-off purchase as a CAPEX asset you can pay for the HST-24-200 trailer over time with bank finance and make this an OPEX cost for your organisation.

The following examples are for payment total for the cost of the trailer including GST¹.

Interest Rate	Monthly Payments	Total Interest	Total Repayment
5 Year Term			
7.55%	\$1,846	\$18,740	\$110,739
4 Year Term			
7.50%	\$2,225	\$14,774	\$106,773
3 Year Term			
7.40%	\$2,858	\$10,872	\$102,871

Insurance

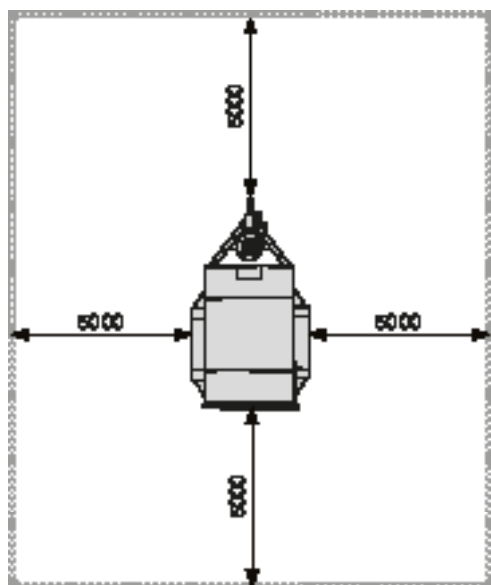
It is the responsibility of the customer to obtain insurance for their hydrogen assets while stored or in active service

Installation Safety

For a hydrogen storage trailer of this size and capacity the safe working distance to protect against potential hazards is 5 metres.

This means when installed on its own or with other devices a safe boundary (fence) is required to prevent the general public and unauthorised people from gaining access to the controls, fittings, and system controls.

Plan View



See Also

- Safe Installation of Hydrogen Devices

What Can You Do With 24 kg of Hydrogen?



Fuel Cell Power Systems

With 24 kg of hydrogen you can produce about 360 kWh of power from a hydrogen generator or fuel cell UPS system.



This is enough energy to power typical home for about 15 days.



Fully charge a Tesla Model Y six times and travel for 2,760 km.



FCEV Refuelling

24 kg of hydrogen in the trailer can be connected to the refuelling modules and boosted up to 700 bar for delivery to FCEV vehicles.

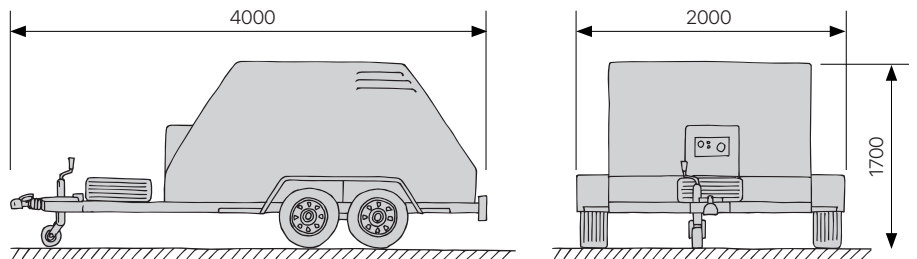


Fully refuel a Toyota Mirai FCEV four times and travel for 2,400 km.



Fully refuel a Toyota Hilux FCEV three times and travel for 1,800 km.

Dimensions



Specification

Detail	Value
Model number	HST-24-200
Hydrogen Storage	
Hydrogen storage capacity	24 kg
Hydrogen storage pressure	200 bar
Pressure vessel type	Type 1
Number of pressure vessels	32
Total water volume of vessels on the trailer	1.6 m ³
Refilling & Output	
Hydrogen refill pressure (max)	200 bar
Refill connection type	TBC
Output connection type	Type 20/21
Built-in pressure gauge	Dial
Environmental & Hardware	
Ambient operating temperature range	5 – 45 °C (41 – 113 °F)
Ambient operating humidity range	Up to 90% Non-condensing
IP rating	IP 66
Total trailer weight (fully loaded with hydrogen)	3,350 kg
Towing ball cup size (diameter)	50 mm
Trailer dimensions ²	Length 4000 mm x Width 2000 mm x Height 1700 mm
Spare wheel	1
New trailers come with full WOF certification	3-year certification
Country of manufacture	Aotearoa New Zealand
Driver certification required	Dangerous Goods Endorsement

¹ The above figures are illustrative only and based on lending quotes provided by Westpac bank. These are current at the time of publishing but should be confirmed before committing to any financial payments.

² All dimensions are correct at time of publication and are subject to change.