

# Commercial Vehicle Onboard Hydrogen Supply System



Air tightness (Helium)

$$\leq 10_{Ncc}$$

Shock tolerance of System

$$8_g$$

Loading capacity of Hydrogenation port

$$670_N$$

Pressure cycling of pressure sensor

$$\geq 1 \text{ million times}$$

Maximum pressure capability of medium pressure pipeline for hydrogen supply

$$3 \text{ MPa}$$

Outlet clarity of hydrogen supply system

$$\leq 10_{\mu m}$$

## PRODUCT PRESENTATION

The hydrogen storage system has its own patented tank valve and pressure regulator. The design is modularized to allow for easy changing of parts to extend the overall system lifetime. The smart monitoring system reduces the risk of hydrogen leakage by over 30%.

## TECHNICAL HIGHLIGHTS

- High flow rate, high durability, and low permeability.
- Modular design - The modular design allows for a longer system lifetime.
- Leak-tight - The optimized design reduces the potential leak rate by 30% compared to previous traditional discretely assembled hydrogen storage systems.
- Lightweight - The OTV weighs only 650g. The hydrogen piping was redesigned to be 80% lighter while the inner diameter is increased by 30%.
- Highly resilient - The hydrogen tank is rust-resistant, handling salt-spray treatment for up to 500 h.
- Safety first - FTXT's own HMS (Hydrogen Management System) which actively monitors the status of the system to prevent accidents and leaks.

## Application scenario of commercial vehicle onboard hydrogen supply system

The application of this product has covered a variety of hydrogen fuel cell vehicle models such as heavy trucks, dump trucks, mixer trucks and buses, and has made great progress in the fields of ships, rail transit and aircrafts.



# Breaking Frontiers in Technology, Fueling Tomorrow with Hydrogen

FTXT Energy Technology Co., Ltd.



12-B, NO.6755 Jiasong North Road, Jiading District, Shanghai,China  
NO.2299 Chaoyang South Street,Lianchi District,Baoding, Hebei,China  
0312-2196535  
<https://en.ftxt-e.com>