
H2 Cylinders
HEXAGON
PURUS

Composite storage meets the demanding requirements

Compressed hydrogen stored in lightweight composite cylinders, enables increased payload and large-scale storage and transportation. Composite storage solutions offer high durability and meet the demanding requirements for large scale up and high consumption of hydrogen that are expected in the years to come.

Hydrogen is a clean and safe energy carrier that can be used as fuel for power in a wide range of applications. Hydrogen can be produced locally close to market and does not require long distance distribution.

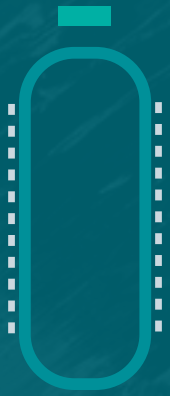


Types of High-Pressure Cylinders



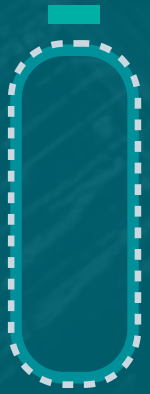
Type I
All steel

Metal



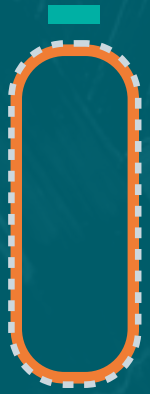
Type II
Fiberglass hoop
wrap steel liner

Metal liner
Composite hoop wrap



Type III
All carbon full
wrap metallic liner

Thin metal liner
Composite full wrap



Type 4
Fiberglass/carbon
full wrap, plastic liner

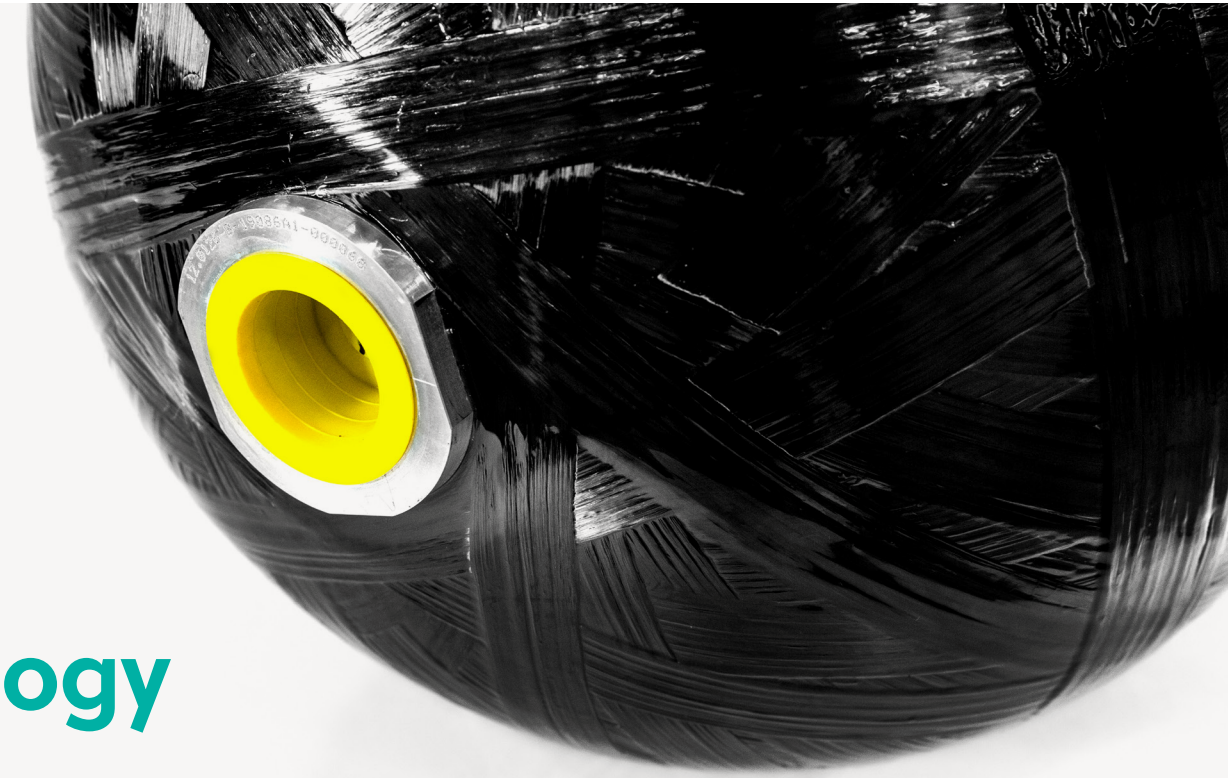
Plastic liner
Composite full wrap

Benefits and features

- **High fatigue strength –** High-strength carbon fiber construction reduces impact, damage and fatigue.
- **Lightweight –** We are continuously researching the lightest and safest material combinations, which reduce vehicle mass and enhance handling and drivability.
- **Certified & standardized –** To ensure highest quality standards, our manufacturing facilities are certified according to ISO 9001:2008 and IATF 16949:2016.
- **Non-corroding –** Corrosion- and fatigue-resistant properties of Type 4 Cylinders lead to high cycle performance.
- **Safety first –** Our in-house test capabilities for most relevant requirements (hydraulic, leak, burst testing, bonfire, penetration, permeation etc.) ensure the highest safety and quality standards.

Over the last couple of decades Hexagon Purus has been adapting its leading and proven Type 4 composite pressure cylinder technology for a wide range of mobility and storage applications in the hydrogen industry.

Our Hydrogen Cylinders developed to date are available in the pressure levels 250, 300, 500, 700 and 950 bar.

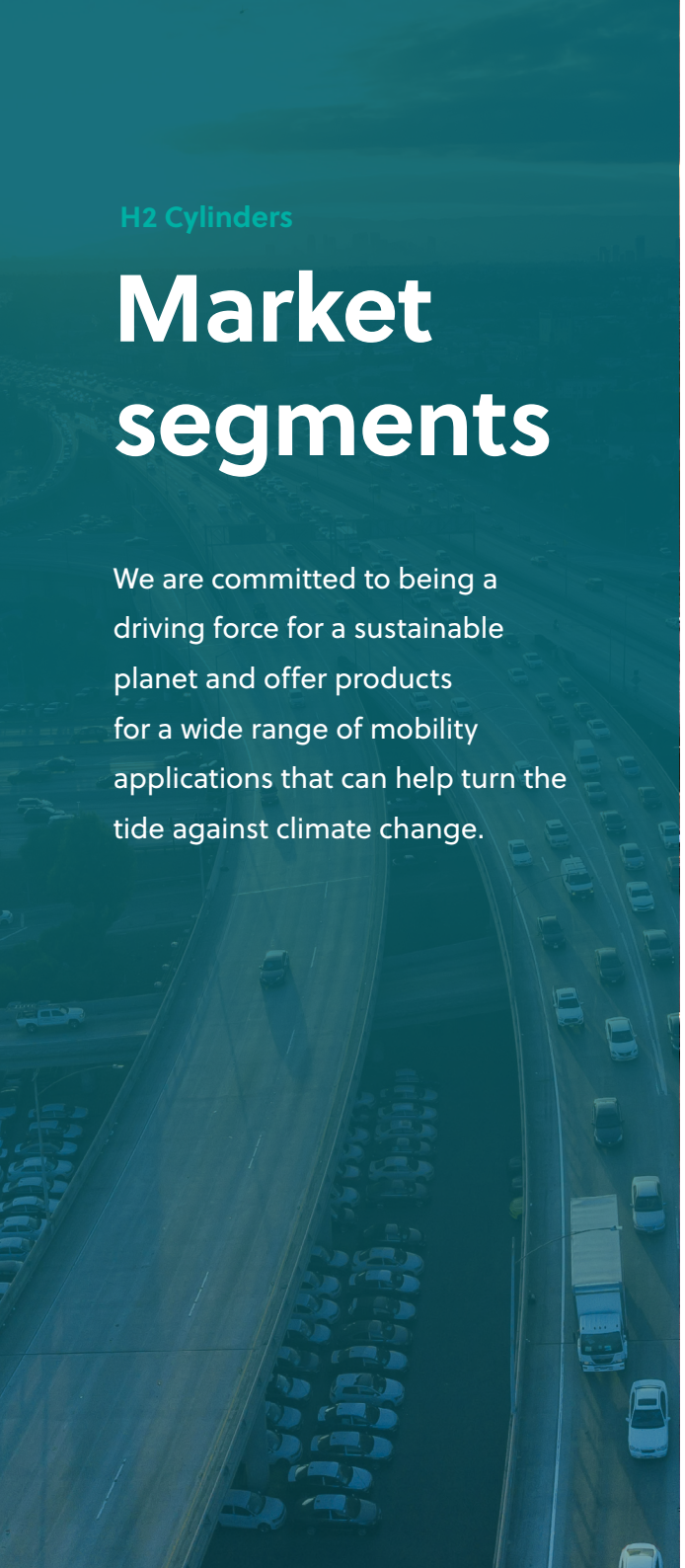


Strong heritage of proven technology

Our in-house test capabilities ensure the highest safety and quality standards.

www.hexagonpurus.com





H2 Cylinders

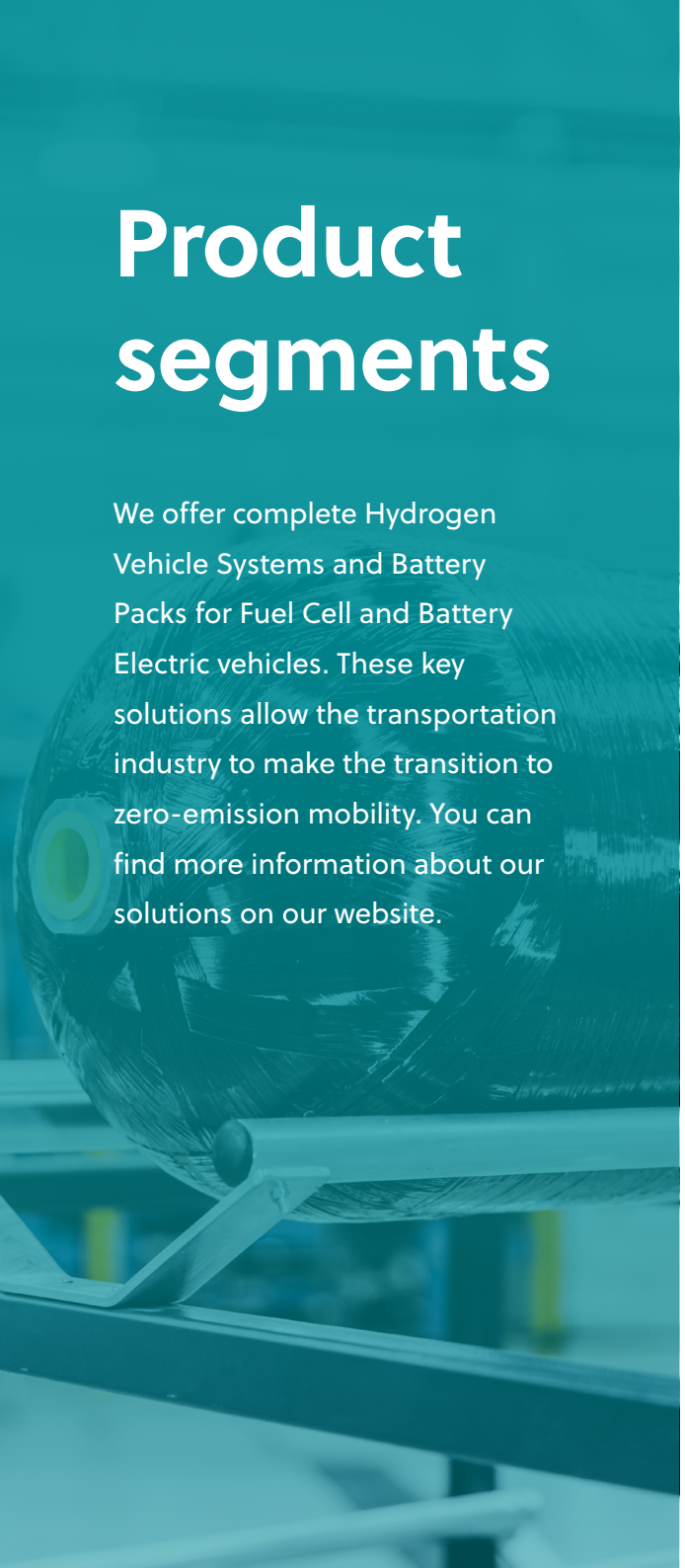
Market segments

We are committed to being a driving force for a sustainable planet and offer products for a wide range of mobility applications that can help turn the tide against climate change.

- Medium- & heavy-duty vehicles
- Fuel cell and battery electric vehicles
- Light-duty vehicles
- Distribution systems
- Bus
- Rail
- Passenger vehicles
- Off highway vehicles
- Aerospace
- Aviation
- Maritime
- Mobile refueling systems
- Stationary storage
- Refueling systems
- Industry
- Vehicle integration

Click here for more information

hexagonpurus.com/markets →



Product segments

We offer complete Hydrogen Vehicle Systems and Battery Packs for Fuel Cell and Battery Electric vehicles. These key solutions allow the transportation industry to make the transition to zero-emission mobility. You can find more information about our solutions on our website.

Infrastructure

- H2 storage cylinders
- Refueling systems
- Stationary storage
- Distribution systems
- High-pressure bundles

Mobility

- H2 storage cylinders
- Liquid H2 storage cylinder
- Hydrogen fuel storage systems
- Battery systems
- Vehicle integration

Click here for more information

hexagonpurus.com/our-solutions →

Hexagon Purus locations

Norway / Germany / Canada / USA / China

1. **Hexagon Purus ASA**
   Haakon VII's gate 2
   0161 Oslo, Norway
2. **Hexagon Purus Maritime AS**
   O.A Devold-vegen 16
   6030 Langevåg, Norway
3. **Hexagon Purus Weeze GmbH**
   Industriestrasse 60
   47652 Weeze, Germany
4. **Hexagon Purus GmbH**
   Hannoversche Strasse 1
   34134 Kassel, Germany
5. **Hexagon Purus Systems Canada Ltd.**
   2150 Matrix Cres.
   Kelowna BC, V1V 0C1, Canada
6. **Hexagon Purus LDC North America**
   1221 Independence Way
   Westminster MD 21157, USA
7. **Hexagon Purus Systems USA LLC**
   1220 E. Acacia St.
   Ontario CA 91761, USA
8. **Hexagon Purus Systems USA Ltd.**
   2401 E Meadows Blv
   Mesquite, TX 75150, USA
9. **CIMC-Hexagon Hydrogen Energy**
   Technologies Co., Ltd.
   Room 202, 2/F, Building 3
   9 Fengyuan Street
   Daxing District, Beijing, China
10. **CIMC-Hexagon Hydrogen Energy**
    Technologies Co., Ltd.
    1 Jixie Road, Shijiazhuang Equipment
    Manufacturing Industrial Park
    Luancheng District, Shijiazhuang, China



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