

Hydrogen high-pressure Type 4 cylinders



OUR PURPOSE

Driving energy transformation

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.

FOR A BETTER FUTURE

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 is expected in the years to come.

SOLUTIONS FOR EVERY APPLICATION

Strong heritage of proven technology

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.

Benefits and features

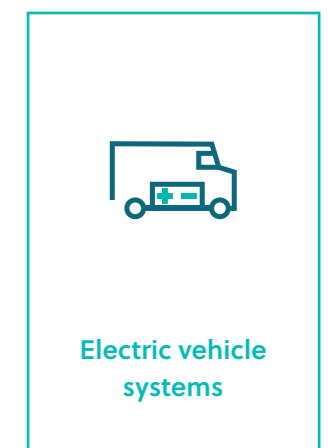
- **High fatigue strength** – high-strength carbon fiber construction reduces impact, damage and fatigue
- **Lightweight** – we are continuously researching the lightest and safest material combinations, which reduces vehicle mass and enhances handling and drivability
- **Certified & standardized** – 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 tanks 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 highest safety and quality standards

Product areas

Hydrogen solutions



Battery solutions



Types of high-pressure cylinders



Type I
All steel



Type II
Fiberglass hoop wrap
steel liner



Type III
All carbon full wrap
metallic liner



Type IV
Fiberglass/carbon full wrap,
plastic liner

— Metal

--- Metal liner
Composite
hoop wrap

--- Thin metal liner
Composite
full wrap

--- Plastic liner
Composite
full wrap

Market segments





Hexagon Purus locations

Norway / Germany / Canada / USA / Singapore / China

1. Hexagon Purus ASA
Korsegata 4B
6002 Ålesund, Norway
2. Hexagon Purus GmbH
Otto-Hahn-Straße 5
Kassel, Germany
3. Hexagon Purus Systems Canada Ltd.
460 Doyle Avenue, #101
Kelowna (BC), Canada
4. Hexagon Purus Systems USA LLC
3335 Susan Street, Suite 100
Costa Mesa (CA), USA
5. Hexagon Purus Masterworks
86 York Street, Suite 4
Taneytown (MD), USA
6. Hexagon Raufoss
Raufoss Industrial Park, b.306
Raufoss, Norway
7. Hexagon Purus Singapore
350 Orchard Road #11-08, Shaw House
Singapore
8. Hexagon China
DRC Liangmaqiao Diplomatic Office Building
Tower D1, Unit 1201C, 19 Dongfang East Road,
Chaoyang District, 100600 Beijing, P.R. China