



FABRUM.

LIQUID HYDROGEN SOLUTIONS

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**ONBOARD
LIQUID HYDROGEN
STORAGE**

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Fabrum's groundbreaking composite manufacturing techniques are the culmination of over two decades of research and development in the fields of cryogenics and composites. Our proprietary triple-skin liquid hydrogen tank technology provides enhanced thermal insulation and fast refuelling.

Ground-based vehicle tanks with an outer metal skin are engineered for maximum durability, while aviation tanks are entirely composed of advanced composites, prioritizing the highest gravimetric index achievable and maximising thermal performance. Fabrum's proprietary hydrogen delivery system (HDS) provides highly responsive temperature- and pressure-controlled supply for fuel cell applications.

A rich portfolio of patents and trade secrets firmly position Fabrum's liquid hydrogen tanks as a global leader. When it comes to pioneering the future of hydrogen storage and transport, Fabrum stands as the First in Class, offering unmatched expertise and technology you can rely on.



APPLICATIONS

Dual-fuel Trucks
FCEV Trucks
ICE Hydrogen Trucks
Hydrogen aviation
FCE Aviation



INDUSTRIES

Aviation
Land transport
Mining
Rail



KEY BENEFITS

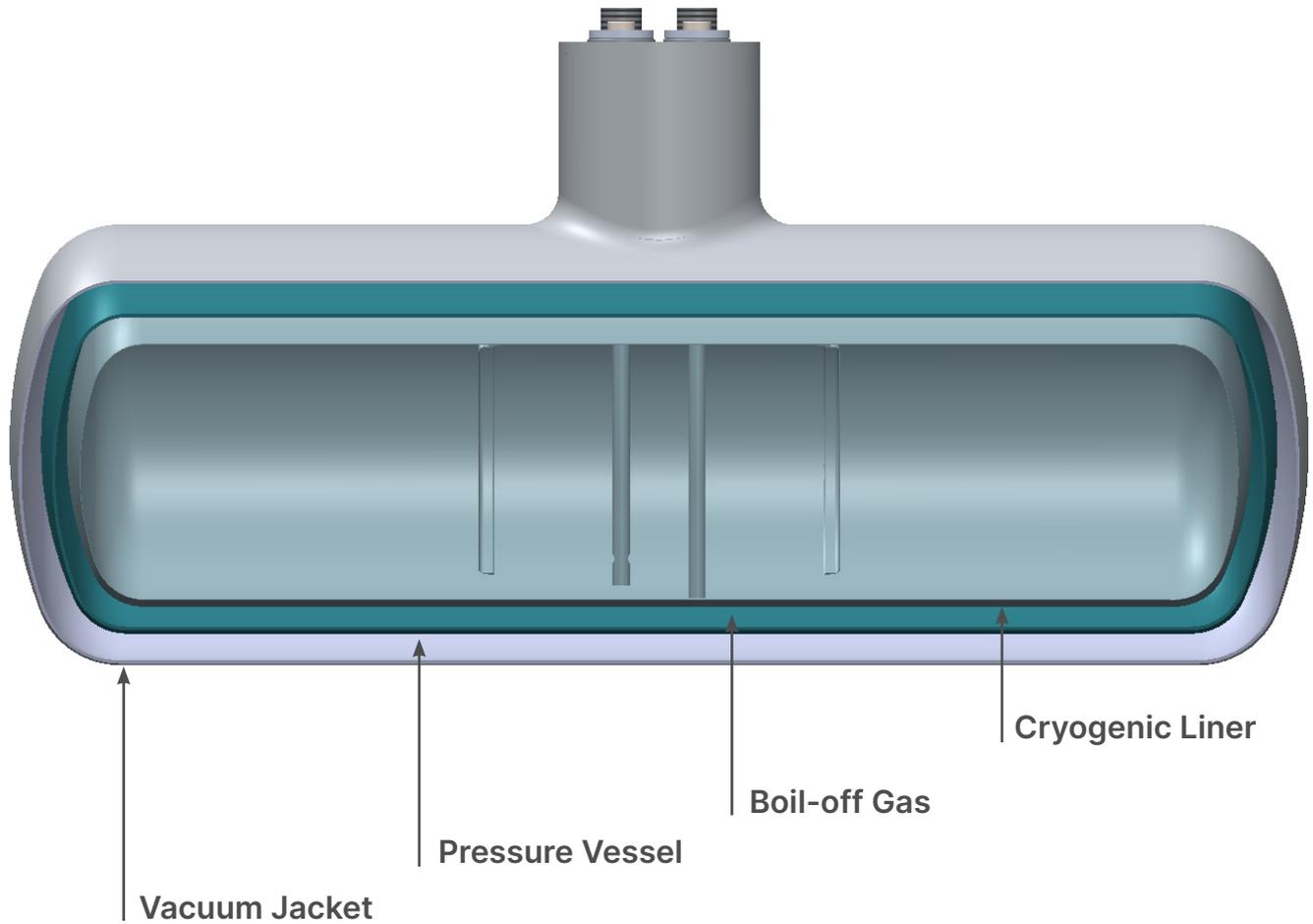
Fast fuelling times
Boil-off-gas management

Fabrum's Onboard Storage delivers these attributes:

- 01 Maximum allowable working pressure up to 10 barg (customised solutions with higher MAWP are also available)
- 02 High GI from 30-65% for composite tanks and 10-30% for metallic truck and mining vehicle tanks
- 03 Dormancy period of up to 72 hours after refuelling, during which there is no hydrogen venting
- 04 Full composite tanks for aviation from 10 kg to 500 kg
- 05 Proprietary Pressure-build circuit (HDS) for controlled delivery of gaseous hydrogen
- 06 Proprietary triple skin technology delivers up to 70% faster refuelling times and 80% reduction in boil-off losses
- 07 Durable metal hydrogen tanks for trucks and mining vehicles from 50 kg - 1000 kg

Experience and Innovation Redefined: Fabrum's Liquid Hydrogen Tank Technology

Triple Skin Technology



“We operate at the bottom of the world but we perform at the top of it; and this is just the beginning of our story.”



Mission Critical Solutions.

Providing world leading solutions in engineering and cryogenic technology. Clever Solutions for a Better Future.

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