LUXFER
GAS CYLINDERS



Alternative Fuel Solutions

Redefining storage for sustainable energy

About Luxfer Gas Cylinders



At Luxfer, we believe that everyone should be able to explore environments with a sense of freedom and a feeling of absolute safety. We pioneer advances in gas containment that can improve the quality of people's lives, their health, their well-being and their protection. We achieve this through constant innovation and by working alongside other technology partners to ensure that we maintain our exemplary record for dependability and safety. Our expertise in the design and manufacture of composite and aluminium gas cylinders spans across a wide range of industries. We are the most trusted supplier of high-pressure composite and aluminium cylinders, with more than 70 million Luxfer cylinders in service around the world.

#everywhereinlife

Supporting you at every step

Experts in alternative fuel solutions, Luxfer Gas Cylinders has supported over 60 Hydrogen fuel storage platforms across a variety of applications - including a number of the world's first Hydrogen vehicles.

Why Luxfer Gas Cylinders?

- We provide an extensive product selection, ranging from cylinders to fully assembled hydrogen fuel storage systems ready for installation.
- With innovation at our core, we dedicate research and innovation resource to developing industry-leading solutions for hydrogen fuel storage.
- Known across the industry for our impeccable global safety record, we are the chosen partner of some of the world's largest OEMs who are transitioning to Hydrogen-powered vehicles.
- With over 80 years of experience in cylinder development and manufacturing, our product offering consists of a variety of cylinder technologies suitable for a wide range of applications.
- As active members of UK, European and North American Hydrogen associations and with team members across our organization driving political, legislative and safety standards for hydrogen fuel storage systems, we are at the forefront of supporting Hydrogen adoption globally.



Our mission is to help to create a safe, clean and energy-efficient world.

Innovation at Luxfer

Virtual Gas Pipelines

Luxfer Gas Cylinders' Nottingham manufacturing base produces up to one million cylinders each year – and is home to alternative fuel specialists who have embedded world-first hydrogen-powered systems into buses, trucks, trains, boats, tractors and even drones.



A recent investment of more than £1million, will establish a new production facility at Nottingham that will support 'virtual' gas pipelines that can distribute hydrogen across the UK and Europe.

Mark Lawday, Vice President and General Manager of Luxfer Europe, explains: "This investment is the natural next step in continuing to build our European hydrogen capability and support the development of the hydrogen economy, which is going to be essential in enabling all of us to reach our decarbonisation goals in Europe in 2030 and beyond."

With appropriate filling speeds and maximum gas capacity critical to suit different virtual gas pipeline requirements, Luxfer has drawn upon the engineering excellence of its global teams in the UK, Canada and North America, and can offer its trusted G-Stor™ Pro Type 3 cylinder, or the newly launched G-Stor™ Go Type 4 technology.

Mark adds: "Thanks to our industry-leading G-Stor™ Pro Type 3 and G-Stor™ Go Type 4 core cylinder technology, combined with decades of experience in alternative fuel systems design and development, we have a product range to provide customers with a choice of technology, module capacities and features, to match current and future needs."

Ownership of core cylinder technology is fundamental to being able to meet customer needs, explains Nick Herbert, Sales Director at Luxfer Europe: "Because we can control the precise diameter of our cylinders through our proprietary liner manufacturing process, we can start with a blank piece of paper. It gives us the ability to develop the most efficient cylinder geometry to optimise our MEGC designs and deliver customers exceptional value.



The new purpose-built facility will produce Multiple Element Gas Containers (MEGCs). Available in 20-foot, 40-foot and 45-foot solutions, the G-Stor™ Hydrosphere range can store between 0.5 and 1.4 tonnes of clean gas and transport it to where it's needed, opening up access to hydrogen for companies targeting greener operations.

Artist impression for illustrative purposes only.





Alternative Fuel Storage Solutions

G-Stor® Hydrosphere

Multiple Element Gas Containers

In our latest innovation project, our team of expert engineers are crafting the G-Stor® Hydrosphere – a solution that prioritizes maximum gas capacity.

Through innovative research and development, we are developing cylinder technology to create a revolutionary gas storage solution.

The G-Stor® Hydrosphere range will consist of a collection of 20ft, 40ft and 45ft MEGCs using either Type 3 or Type 4 cylinder technology to transport hydrogen or other gases.

For further information please contact our team.

Product specifications are available upon request.



G-Stor® Pro Bundle

Introducing Luxfer Gas Cylinders' new range of Multiple Cylinder Pallets (MCPs). The G-Stor® Pro Bundle range is a high pressure gas storage solution using dependable Luxfer Type 3 cylinders.

Our unique cylinder processing reduces weight, increases volume and provides higher pressure storage – giving you more gas in a lightweight, compact package.

Using our G-Stor® Pro H2 cylinder technology we have developed a range of modular high pressure gas bundles.

Set in a durable, high strength frame Luxfer Bundles are the ideal solution for transporting gases. Custom panel artwork is an optional extra to promote your brand.

Product specifications are available upon request.



G-Stor® H2

Luxfer's G-Stor® H2 Type 3 and Type 4 cylinders are a leading line of lightweight high-pressure hydrogen storage cylinders used by a number of the world's largest OEMs that design, develop and manufacture state-of-the-art compressed hydrogen storage systems for fuel-cells and internal-combustion engines.

The G-Stor® Pro H2 advantage is our lightweight, impermeable Type 3 cylinder technology. Many hydrogen storage systems fitted with G-Stor® Pro H2 cylinders are operating around the globe in a variety of applications.

The G-Stor® Go H2 advantage is our lightweight Type 4 cylinder technology, resulting in a certified, cost-effective hydrogen storage solution that is ideal for hydrogen transit buses, heavy-duty trucks, vans, bulk gas transport, boats, and trains.

Luxfer G-Stor® H2 cylinders are approved to a range of standards* including TPED, PED, PESR, HGV2, EC79 and R134.

For further information please contact our team.
Product specifications are available upon request.

*subject to change



Luxfer Gas Cylinders

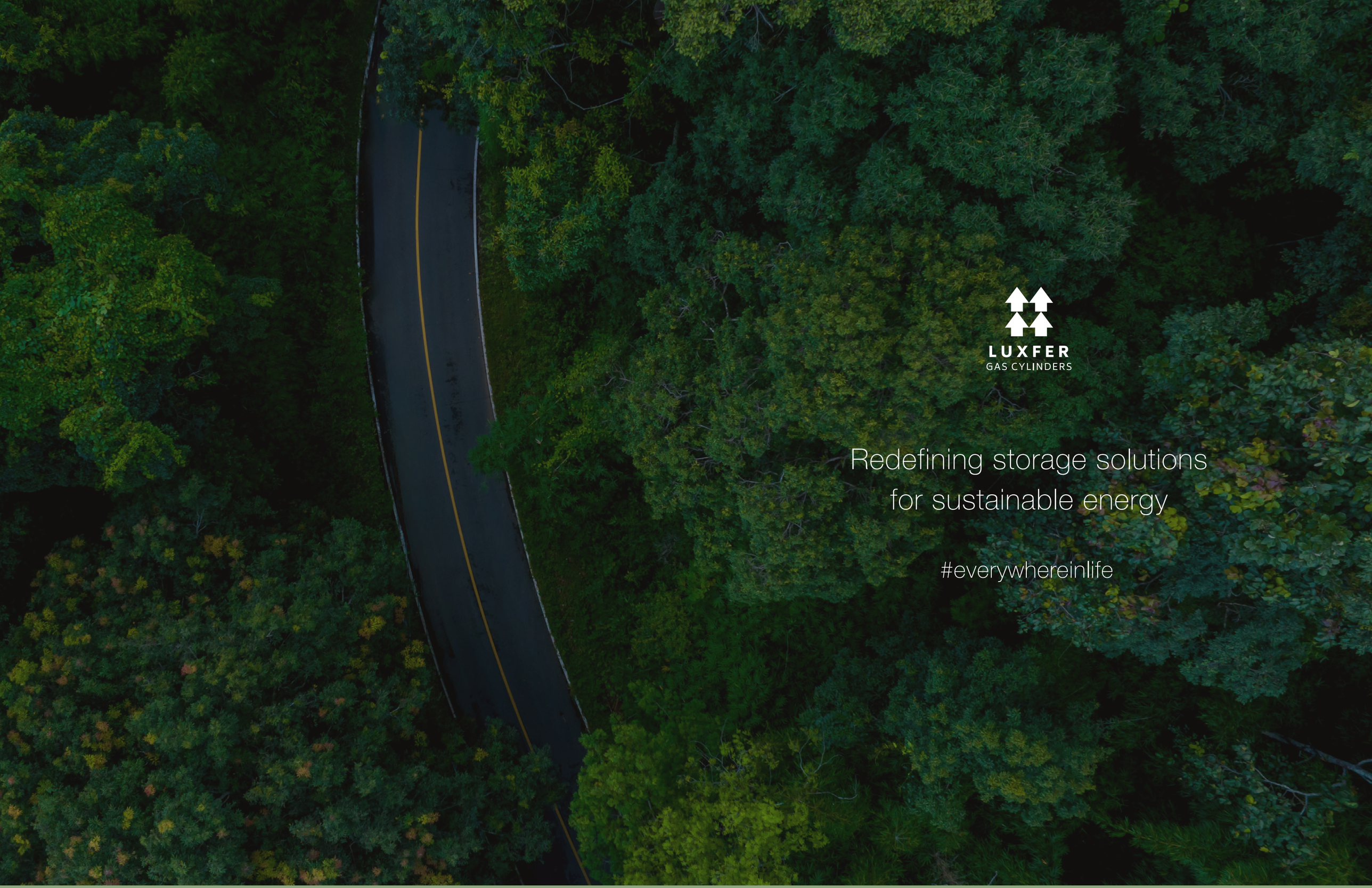
Hydrogen Fuel Storage Systems

Since 2016 Luxfer H2 alternative fuel systems have been used by many vehicle OEMs around the globe. Luxfer Gas Cylinders designs and manufactures state-of-the-art hydrogen fuel systems for zero-emission fuel cell buses, trains and many other vehicles fitted with Luxfer's industry-leading lightweight cylinders – the G-Stor® H2 product family.

Luxfer's proven record in partnering with customers to deliver hydrogen World First vehicles include: The world's first hydrogen-powered double decker bus, the world's first commercially available H2 truck, the world's first self-sufficient hydrogen boat and the world's first commercially available hydrogen powered refuse trucks.

For further information please contact our team.
Product specifications are available upon request.





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for sustainable energy

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CUSTOMER FIRST | INTEGRITY | ACCOUNTABILITY

INNOVATION | PERSONAL DEVELOPMENT | TEAMWORK

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