



Light-duty vehicles



Medium- and heavy-duty vehicles



Bus



Rail



Maritime



Aerospace



Aviation



Distribution



Ground storage

Hydrogen distribution systems in standard execution

X-STORE® containers

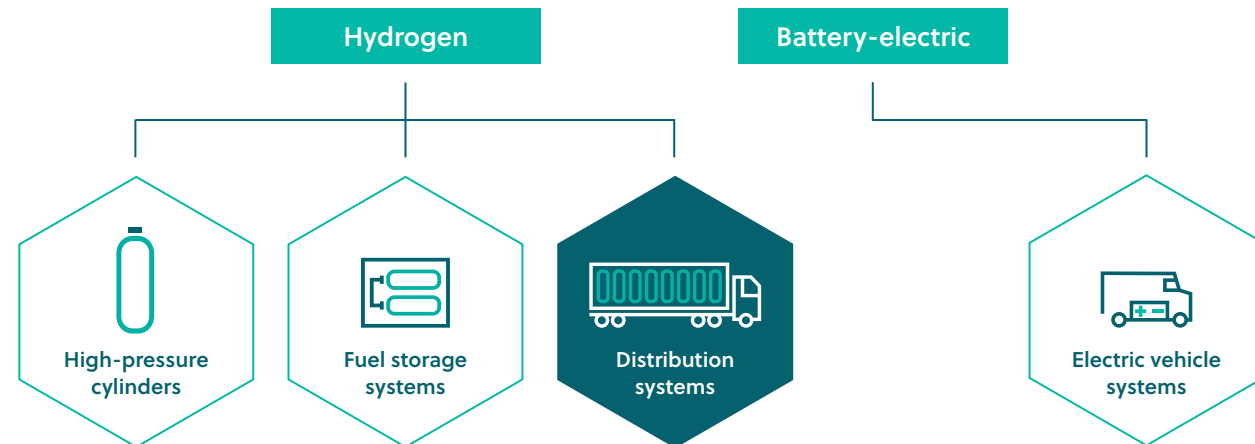
Hexagon Purus is a globally leading supplier of Type 4 high-pressure composite cylinders and systems for storage and transport of gases under pressure. Type 4 cylinders are the best combination of safety, efficiency and durability available. Their lightweight construction improves vehicle range, payload and handling.

Hexagon Purus is well positioned across the hydrogen value chain with cylinders and systems for cars, trucks and buses, ground storage, transportation, maritime and rail. Development and production take place at modern facilities in Canada, Germany and the USA.

Distribution

Hydrogen from renewable resources is the energy carrier of the future. An efficient distribution network is required to transport it to the end user. Our X-STORE® container and trailer solutions are ideal for road, rail and maritime distribution. They use our leading Type 4 cylinder technology and provide the highest payloads in the market.

Product areas





Hexagon Purus transport solutions

For transport and mobile refueling applications

		SMARTSTORE® H2	X-STORE® DOT 500 bar 20 ft	950 bar Mini-Container
Approval	Cylinders	DOT / ABS	DOT	DOT
	System	DOT / ABS	DOT	DOT
Operating pressure (15 °C)	MPa (bar)	25 (250)	50 (500)	95 (950)
Capacity H2	kg	380	594	25
Hydraulic capacity, approx.	l	21,000	18,738	1,247
Container (length x width x height)	m (ft-in)	6.06 x 2.59 x 2.90 (20'-0" x 8'-6" x 9'-6")	6.06 x 2.59 x 2.90 (20'-0" x 8'-6" x 9'-6")	3.21 x 1.32 x 0.76 (10'-7" x 4'-4" x 2'-6")
Net weight container, approx.	kg (lbs)	7,338 (16,162)	13,100 (30,176)	1,247 (2,750)
Total container weight + H2	kg (lbs)	7,718 (17,000)	14,294 (31,484)	1,272 (2,802)
Quantity cylinders	pcs	12	52	2
Burst pressure, min.	MPa (bar)	60 (600)	120 (1200)	228 (2280)
Cylinder operating temperature min./max.	°C (°F)	-40 / +82 (-40 / +180)	-40 / +85 (-40 / +185)	-40 / +82 (-40 / +180)
Cylinder type		Type 4		
Cylinder design		All-carbon		Carbon and glass fiber
Cylinder liner material		High-density polyethylene (HDPE)		
Inspection standard		DOT		

Specifications subject to change without notice.

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