

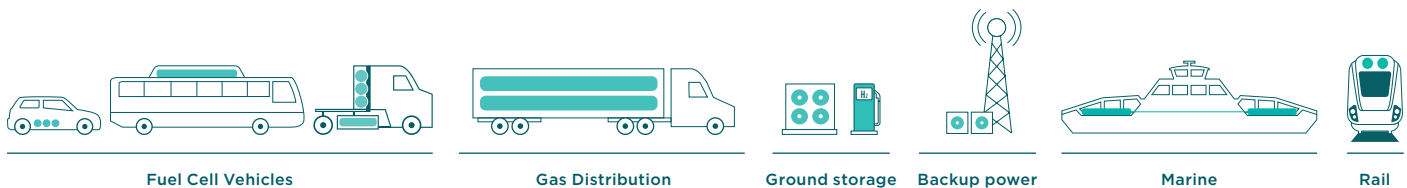


HYDROGEN STORAGE AND TRANSPORTATION SYSTEMS

TYPE 4 HYDROGEN CYLINDERS

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

Hexagon Composites is well positioned across the hydrogen value chain with vehicle tanks for cars and buses, ground storage, transportation and backup power solutions. Development and production take place at modern facilities in Lincoln, Nebraska (US), Kassel (Germany) and Raufoss (Norway).



FUEL CELL VEHICLES

Hexagon Composites has developed high-pressure hydrogen cylinders for fuel cell vehicles, which are fueled by hydrogen and produce no harmful emissions when operating.

GROUND STORAGE

The introduction of fuel cell vehicles will drive the demand for Hydrogen refueling stations (HRS). The fatigue-resistant cycling properties of composite pressure cylinders make them more suitable for storage than steel alternatives.

GAS DISTRIBUTION

Demand for Hydrogen distribution solutions will grow strongly as a function of the demand for transportation of hydrogen from renewable sources. Hexagon Composites' Mobile Pipeline® and X-STORE® solutions are certified for Hydrogen distribution. Type 4 tanks allow more gas to be transported in a given trailer space.

BACKUP POWER

Hydrogen fuel cells are an efficient and emerging choice for low-emission, reliable backup power used for telecommunications, emergency services and in remote locations. Hexagon Composites offers backup power solutions with lightweight Hydrogen tanks that enhance system performance and payback.

MARINE AND RAIL

Hexagon Composites is at the forefront of developing hydrogen solutions for the marine and rail industry.

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HEXAGON COMPOSITES HYDROGEN TYPE 4 CYLINDER INFORMATION

Type 4 cylinders designed and manufactured by Hexagon Composites* wholly owned subsidiaries Hexagon Lincoln, Hexagon Raufoss and Hexagon xperion.

REF	NOMINAL WORKING PRESSURE (15° C) MPa	OUTSIDE DIAMETER MM	OVERALL LENGTH MM	WEIGHT KG	WATER VOLUME L	HYDROGEN CAPACITY KG
A	20	315	1 060	16	46	0.7
B	25	541	2 783	164	450	8.0
C	25	503	2 342	94	350	6.0
D	30	509	2 342	112	350	7.2
E	35	420	3 190	101	312	7.5
F	35	509	2 342	112	350	8.4
G	50	565	3 277	280	530	16.5
H	50	531	2 424	229	347	10.7
I	70	319	906	34	36	1.4
J	70	238	1 600	29	39	1.6
K	70	420	845	43	64	2.6
L	70	440	1 050	59	76	3.1
M	70	530	2 050	185	244	9.8
N	70	530	2 154	188	244	9.8
O	95	515	2 783	365	254	12.4

* Portable cylinder including hexagonal plastic shaped casing for protection.

Per 1 September 2018