



Setforge

HYDROGEN

In industry, transport and buildings, hydrogen can be used to decarbonise many sectors of our economy. Throughout its value chain hydrogen requires high added-value mechanical parts in aluminum or stainless steel capable of withstanding very high pressures and compatible with hydrogen.

Setforge has a strong track record in the most demanding sectors, and is able to help you develop your innovative hydrogen solutions. Our unwavering commitment to quality and innovation allows us to meet even the most demanding requirements with precision and excellence. Let's work together to achieve your goals!



COMMITTED TO YOUR **SUCCESS** AT EVERY STEP

Together let's build your project from your idea to the finished part.



CO-DEVELOPMENT

Engineering excellence

- Materials selection, process optimization,
- re-design to cost, tooling design,
- structural and metallurgical analysis,
- industrialization phase...



FORGING

Extensive know-how

- From 0.1 kg to 1500 kg
- Small, medium & high production volume
- with a wide diversity of materials including
- aluminum and stainless steel



MACHINING & FINISHING

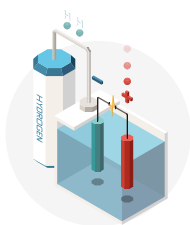
A comprehensive approach

- Heat treatment, pre-machining or
- finished parts, assembling, coating,
- painting, RFID tracking...
- In-house or with selected partners*

FORGED PARTS ACROSS THE ENTIRE VALUE CHAIN

PRODUCTION | STORAGE | DISTRIBUTION | MOBILITY

We are able to support you at every stage of the hydrogen cycle!



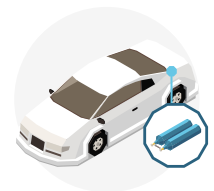
GAS & LIQUID STORAGE

Storage tank, valves...



H2 STATION

Brake away, nozzle, refrigeration machine, handling elements...



1

2

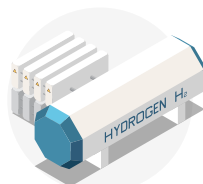
3

4

5

ELECTROLYSER

Structural elements, lifting accessory, reinforcement plate, pump, compressor...



TRANSPORT & COMPRESSOR

Trailer components, shafts, wheels...



FCV MOBILITY

H2 fuelling nozzle, H2 receptacle, hydrogen tank, pressure reducer, fuel cell, inverter, electric motor, air compressor...

HYDROS PROJECT - EMPOWERING HYDROGEN INNOVATION

Hydros is a special Setforge project dedicated to supporting stakeholders in the hydrogen sector by providing end-to-end solutions for the development and production of high-performance parts.

With strong engineering and prototyping capabilities, deep expertise in complex materials such as aluminum and stainless steel, and flexible production capacities ranging from small series to large volumes, we deliver reliable, high-quality components designed for safety-critical applications.



Crank shaft

Hydrogen motor
Stainless steel



Tank valve & tank plug

Controls the flow of hydrogen in the hydrogen storage modules and in the high pressure system
Aluminum or stainless steel



Pinion

Various applications
All materials



Boss

Connection between the liner and the filling and outlet valve
Aluminum or stainless steel



Shaft

For electrical air compressor
Stainless steel



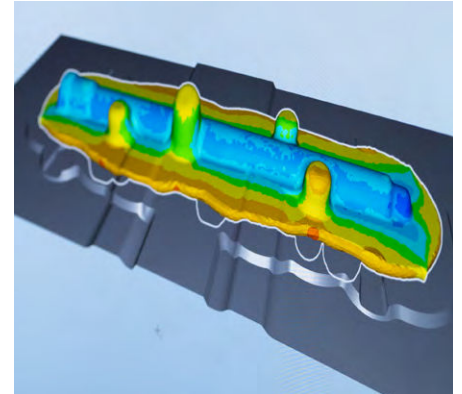
Piston

Hydrogen motor
Steel made by electrical upsetting



Manifold

Distributes the hydrogen for filling the tanks and for consumption by the fuel cell or the H2 engine
Aluminum or stainless steel



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OUR VISION 2050

BECOMING THE **LOW CARBON** FORGING LEADER

Because facing the environmental challenge requires concrete actions. Electrification of processes, energy management, on-site green energy production, sustainable supply chain, waste management, awareness campaigns of our teams... With our special group project E-CAR, we take a stand for the future.



Setforge

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