

Pioneering Hydrogen Together



Our vision

At FORVIA, we believe hydrogen is key for effective decarbonization of the economy and is a technology providing answers to sustainable mobility challenges.

Global supplier of hydrogen storage cylinders and systems with 4 running production plants in China, France & South-Korea, we pioneer hydrogen storage solutions for mobility, transport and distribution.

Our agnostic hydrogen storage solutions, whether gaseous or liquid, seamlessly integrate with both fuel-cell and H₂ ICE vehicles, delivering full compatibility and performance across all hydrogen-powered vehicle architectures.

Today, FORVIA is at the heart of a range of projects and partnerships accelerating hydrogen industry on a global scale.





Onboard hydrogen storage

High-performance hydrogen storage solutions for mobility applications.

LEADER IN HYDROGEN STORAGE SYSTEMS

► Recognized Experience

Serial production since 2016. More than 34 million km driven with FORVIA hydrogen storage systems worldwide.

► Cost-effective Type IV composite tanks

Produced in high-capacity facilities, offering an optimized weight-to-performance ratio.

► Ready to use solutions

Tailored onboard solutions delivered as plug-and-play modules, supported by a wide tank portfolio.

SYSTEM SOLUTIONS BASED ON A WIDE STANDARD CYLINDER PORTFOLIO

- **Cylinder types:** Type I · Type III · Type IV
- **Working pressure:** 35 MPa · 70 MPa
- **Tank family range:** 200 mm to 700 mm diameter
- **Available sizes:** from XS (30 L) to XL (560 L)
Length up to 2420 mm

CERTIFICATIONS

R134

GB/T

Bundle & Container hydrogen storage

Efficient hydrogen transport & distribution solutions reducing total cost of ownership and CO₂ emissions.

LIGHTWEIGHT SOLUTIONS FOR HYDROGEN TRANSPORT AND DISTRIBUTION

- **Lightweight & fatigue resistant composite cylinder**
Designed for high working pressure
- **Complete MEGC solutions with partners**
Up to 1 ton of usable hydrogen

SAFE AND COST-EFFECTIVE COMPOSITE CYLINDERS SUPPLIED TO MEGC PARTNERS

- **Type III cylinders**
Compatible with high speed in refueling & defueling: high & homogeneous thermal conductivity. Compliant with vacuum procedures: metal liner
- **Type IV cylinders**
Maximized lifespan: corrosion-free plastic liner. High fatigue resistance allowing high pressure and storage capacity
- **Working pressure:** 38 MPa / 45 MPa / 52 MPa



CERTIFICATIONS



Engineering Services for Zero-Emission Solutions

PRODUCT DEVELOPMENT

- **Simulation expertise from 0D to 3D**, virtual pre-validation, proof of concept.
- From specification definition to complete system design and optimization.
- **Prototyping**, proof of concept.



MATERIAL LAB

- **Extensive capabilities** for metallic, plastic and composite material analysis.
- Root cause analysis, postmortem.

IN-HOUSE TESTING

- Full performance and validation for high-pressure gaseous storage, from components to complete systems. Advanced cryogenic testing enabling fast and reliable validation loops.



H₂ SCHOOL

- **FORVIA H₂ Academy.** Developing skills across the hydrogen value chain.
- **15+ training modules.** Covering fundamentals, safety, standards, and advanced product & system engineering.
- **Expert-led training.** All modules developed and delivered by FORVIA specialists.

Powering the rise of a hydrogen ecosystem

*Shaping the future
through partnerships and
collaborative ecosystems.*



HyMot

FASTER REFUELING

Accelerating hydrogen adoption with high flow (300g/s) refueling and high-capacity storage systems.

HeadHy

Funded by the EU

SUSTAINABLE PRODUCTS

Thermoplastic solutions

Improving tank recyclability with advanced thermoplastic-carbon fiber construction, cutting environmental impact.

Enhanced composite with Graphene additive

Reducing carbon fiber content for more affordable and sustainable composite cylinders.

GIANCE
Fused with Sustainability

Funded by the EU

LIQUID STORAGE

Advancing liquid hydrogen storage solutions through motorsport to unlock future heavy-duty mobility.

MISSION
H24

HYDROGEN COMBUSTION ENGINE (H₂ICE)

Delivering uncompromised performance* with zero CO₂ and zero pollutant emissions through advanced exhaust aftertreatment and high-performance hydrogen storage.

HyMot

Funded by the EU

**versus existing Internal Combustion Engines*

A global organization with a local industrial deployment

 NORTH AMERICA

 FRANCE

 CHINA

 SOUTH KOREA

 JAPAN

 INDIA

 BRAZIL

Production Plant   Sales Office

Technical Office   R&D Center

CO₂ roadmap

progress in line
with our ambitions

BY 2025

AT LEAST 80% REDUCTION
IN SCOPES 1 & 2
CO₂ EMISSIONS (VS. 2019)

BY 2035

45% REDUCTION
IN SCOPES 3
CO₂ EMISSIONS

BY 2045

NET-ZERO
EMISSIONS¹



SCIENCE
BASED
TARGETS

At FORVIA, we are tackling the issue head-on.
We are the first French company and the first automotive industry
player worldwide to receive *Science-Based Targets initiative* (SBTi)
certification for our concrete commitments towards carbon neutrality.

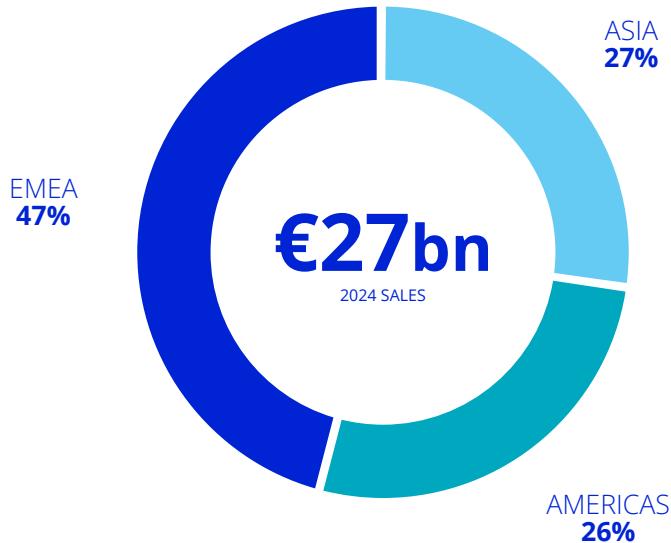
¹90% reduction in absolute GHG emissions from scopes 1, 2 & 3 compared to 2019, with the remaining 10% to be offset by removals.

FORVIA

at a glance

*One in two
vehicles
worldwide
is equipped
with FORVIA
technologies*

Strategic positioning
in all major markets



15,000

R&D ENGINEERS



12,900

PATENTS IN THE
PORTFOLIO IN 2024



~900

PROGRAMS
IN 2024

EUROPE
fhseurope@forvia.com

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