Hexagon Purus launches next generation distribution system for safe and efficient transportation of hydrogen on road, rail and inland waterways

(Weeze, 8 October 2026) Hexagon Purus, a world leading manufacturer of zero emission mobility and hydrogen infrastructure solutions, today launches HyCarrier, its next generation distribution system for multimodal hydrogen transportation. HyCarrier builds on a strong legacy of more than 650 hydrogen distribution modules already in the field and several decades of experience with safe and secure transportation of compressed gases. HyCarrier is a modular Type 4 Multiple Element Gas Container (MEGC) for transporting compressed hydrogen by road, rail and inland waterway, and offers up to 50,000 liters of water capacity, corresponding to 1304 kg of hydrogen at a working pressure of 380 bar.

HyCarrier is developed to meet the future requirements of multimodal hydrogen transportation, drawing on extensive in-field service data and ongoing customer feedback from Hexagon Purus' existing distribution offering. The next generation MEGC features a modular setup with optimized cylinder dimensions and system design to maximize payload and reduce operating costs. HyCarrier has a flexible configuration and is available in sizes from 10 to 45 feet at 300 and 380 bar to meet specific customer needs. With a periodic inspection interval of 10 years, HyCarrier also reduces operational downtime and inspection costs over the lifetime of the unit. HyCarrier is developed and manufactured in-house with approximately 90% vertical integration, from cylinder manufacturing to final system integration.

"We are happy to announce the launch of HyCarrier, our next generation distribution system for multimodal hydrogen transportation. HyCarrier builds on the continuous development of our existing MEGC offering as well as decades of experience with safe handling of compressed gases," says Michael Kleschinski, EVP Hydrogen Infrastructure & Mobility at Hexagon Purus. "HyCarrier marks an important step in future-proofing Hexagon Purus' hydrogen distribution offering, and we look forward to start delivering HyCarrier to our customers."

Key features of HyCarrier

- **Capacity: Up to** 50,000 liters of water capacity – the largest Hexagon Purus MEGC to date.
- **10-year inspection interval:** Reduced inspection frequency and downtime over the unit's lifetime.
- **Multimodal:** CSC-approved frame that can be lifted and stacked by crane, certified for transport by road, rail and inland waterway.
- **Flexible configuration:** Available in sizes from 10 to 45 feet and configurable to customer requirements.

- **Prepared for (remote) monitoring:** Designed so additional sensors and monitoring equipment can be added at any time.
- **Designed for maintenance:** Standardized components to simplify repairs and spare part supply.
- **Safety:** (Jet-)fire protection is built in - sheet-metal separation of all gas-wetted components, a dedicated fire barrier between cabinet and cylinder, and fire-triggered shut-off valves that isolate each section automatically to prevent gas backflow

Hexagon Purus will present HyCarrier at the Hydrogen and Carbon Capture Technology World Expo 2026, taking place 20–22 October in Hamburg, Germany (Hall B7, Stand 7G35).

For more information:

Matthias Kötter, Managing Director, +49 2837 9135-140, matthias.koetter@hexagonpurus-weeze.com, Hexagon Purus

About Hexagon Purus

Hexagon Purus enables zero emission mobility for a cleaner energy future. The company is a world leading provider of hydrogen Type 4 high-pressure cylinders and systems, battery systems and vehicle integration solutions for fuel cell electric and battery electric vehicles. Hexagon Purus' products are used in a variety of applications including light, medium and heavy-duty vehicles, buses, ground storage, distribution, refueling, maritime and rail.

Learn more at www.hexagonpurus.com and follow @HexagonPurus on LinkedIn.