

THE H₂ICE – HYDROGEN INTERNAL COMBUSTION ENGINE

EDAG COMPETENCIES



YOUR GLOBAL MOBILITY ENGINEERING EXPERTS

Achieving zero carbon emissions is a major focus in the Mobility Industry. The most important is openness to technology. For different vehicle concepts might fit different technological approaches. When we talk about alternative powertrains, fueled with Hydrogen, there is an alternative to the Fuel Cell, the Hydrogen Internal Combustion Engine (H₂ICE).

The H₂ICE tackles the main challenges which especially energy intensive, weight sensible or hydraulic focused vehicles have with alternative powertrains: refueling time, weight management, thermal management, no drastic changes to existing vehicle concept, powertrain complexity, sustainability, needed time for retro-fitting.

Our H₂ ICE portfolio:

- Engineering service
- Turnkey vehicle integration projects
- Engineering & supply of H₂ storage system including amongst other tanks, sensors, system frame, pressure regulators, valves

The efficient integration of a H₂ engine and storage system is possible through in-depths whole vehicle knowledge of EDAG experts across industries.

Contact our Experts:
edag.cv.sales@edag.com

Our H₂ICE competencies:

- Legal requirements, norms & standard
- Strategy, concept & package
- Geometrical design & development
- Weight distribution management
- Integration & simulation
- Thermal & airflow management
- Supplier interface management
- E/E System design & function development
- H₂ routing
- Testing & validation (including leakage tests)
- Prototyping & small series production
- Commissioning
- Fleet services and data management
- Innovation projects

Applications suited across industries:

- Commercial vehicles: Light, medium and heavy duty commercial vehicles, buses
- Off-road vehicles & mobile machinery, such as logistics, agriculture and construction equipment
- Rail industry

REQUIREMENTS MANAGEMENT

IMPLEMENTATION OF
ALL REQUIREMENTS,
ESPECIALLY NEW
TECHNOLOGIES



**YOUR GLOBAL MOBILITY
ENGINEERING EXPERTS**

The specifications and requirements for both individual vehicle components and the complete vehicle are extremely extensive and complex.

At EDAG, we assist you with the implementation of all applicable requirements. The decisive factors here are technical requirements, internal guidelines and, in particular, legal provisions. This means that you can be sure that you are able not only to offer the expected performance, but also to meet the legal requirements of all markets.

Contact:

E-Mail: ppdm@edag.com



Your advantages

- Implementation of all legal requirements in your target markets
- Implementation of the technical performance in accordance with the product specifications
- Creation of a generally valid basis for similar future projects
- Complete documentation of the development milestones

Our services at a glance

- Derivation of individual requirements from a defined portfolio of documents (product specifications, internal guidelines, legal regulations)
- Transfer of each requirement to DOORS, AVW or similar subsequent systems

Optional

- Supervision of the technical concept to implementation through reviews
- Supervision of the validation activities from supplier nomination onwards, in accordance with derived requirements or specified processes