

H₂ Tanks and Fuel Cells



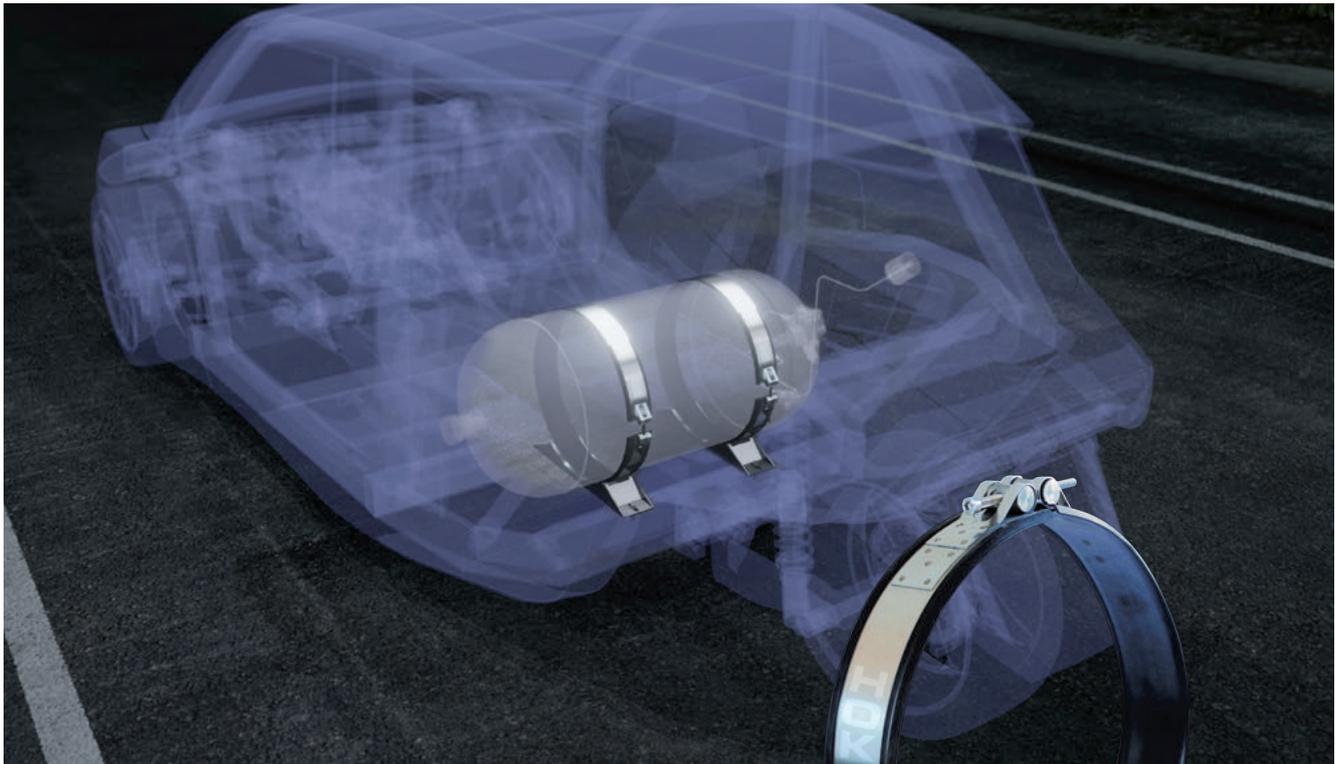
As a specialist for closure technology and special constructions, HoKon also manufactures tensioning straps for fuel cells and pressure vessels in the application areas of hydrails, hydrobuses and hydrogen cars.

Our straps are made of robust band steel and are used to fasten components for optimum protection against operational influences such as

acceleration forces, vibrations, pressure changes and shock loads. In close cooperation with our design department, we develop high-quality elements that are designed for easy handling and ideal functionality.

On request, we produce belts according to your individual requirements.

Tension bands used in H2 and CNG tank systems



Advantages:

- ✓ fulfil ECE R110 (annex 5)
- ✓ Customize to requirements and develop with the customer
- ✓ Variable in length, width and thickness
- ✓ From samples over small series up to series production
- ✓ With or without bracket
- ✓ Plastic coating for careful fastening

Our tension bands made of robust steel strip provide an optimum fastening options for the pressure vessels in hydrogen and natural gas tank systems.

By fastening the pressure vessels are protected against external influences such as acceleration forces. By fastening with two tension bands (clamping straps) the directive ECE R110 (annex 5) is fulfilled.

We offer the possibility to develop the tension bands together with the customer according to his requirements. We are able to offer tension bands of various dimensions (length, width and thickness), with or without brackets, and on request also with a plastic coating.

Tension bands used in fuel cell stacks

The use of our tension bands in fuel cell stacks leads to a good all-around cohesion of the whole system, which can have a positive influence on the stack power density. The resistance to pressure changes, vibrations and shock loadings are also increased.

Offering different closure options, our tension bands can be used variable. Thus, it is possible to use the same tension band in fuel cells with different stack heights.

The development of customized tension bands are almost without limits.



Advantages:

- ✓ Development with the customer according to his requirements
- ✓ adaptable to stack height
- ✓ different closures can be used
- ✓ with or without plastic coating
- ✓ from sample, small batches to series production
- ✓ variable in length, width and thickness

HoKon

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