

HoKon

VERSCHLUSSTECHNIK &
SONDERKONSTRUKTIONEN

Fuel Cells & Tank fastening



Fuel Cells & Tank System



Tension bands in use in H₂ and CNG tank systems

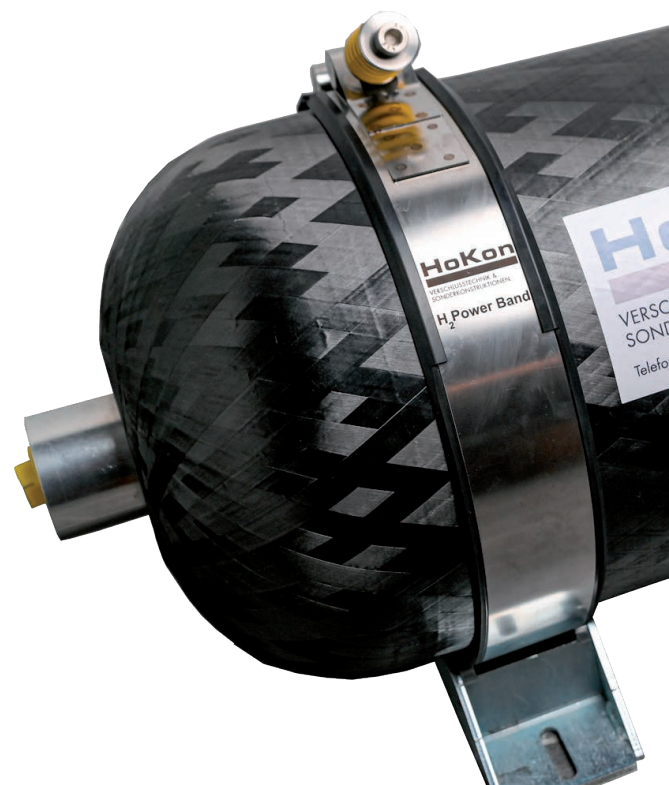
Our high-quality tension straps made of cold-rolled stainless steel offer an optimal fastening option for the installation of hydrogen and natural gas tank systems. Taking into account the installation situation of the overall assembly, as well as the manufacturer's specifications, we develop and manufacture your H₂ Power strap. For gas-filled tank systems, the use of a spring should be considered. This can be we can adapt it to the tank on the basis of the technical data the tank on the basis of the technical data and applications. We will be happy to more in-depth advice here.

The H₂ Power Band

We have developed the H₂ Power Band in order to to offer the customer a fastening solution which takes into account the external influences as well as the as well as the dynamics of the tank. The pressure vessels are protected by the fastening against influences such as acceleration forces acceleration forces and, thanks to the with two H₂ Power Band, they comply with the guideline ECE R110 (Annex 5).

Advantages

- Compliance with ECE R110
- Adaptation to customer requirements and development with the customer
- Variable in length, width and material thickness
- From sample to small series to series production to series production possible
- Version with and without bracket
- Plastic sheathing for gentle fastening
- Use of suitable pressure spring



H₂ Power Band® – the original from HoKon

Tensioning straps in use for fuel cell stacks

The application focus of our tensioning straps is on the fastening of the Bi-Polar-plates, which are bundled together as a stack in the fuel cell. The tightening straps offer the advantage over threaded advantage over tension rods in that the stack package is compressed evenly over the entire surface. The power density of the density of the fuel cell can be increased considerably. Through the use of different and pressure springs, our tension springs, our tensioning straps can be variably applicable. This means that belts of the same belts can be attached to fuel cells of different fuel cells of different sizes. There are almost no limits to the development customer requirements are virtually set.



Advantages

- Development with the customer according to his requirements
- Adaptable to the size of the fuel cell adaptable
- Different closures can be used
- Use of suitable compression spring
- With or without plastic coating
- From sample to small series to series production to series production possible
- Variable in length, width and thickness

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IRISTM
Certification



Fraunhofer
IPT



TU Delft



ZBT