

## PRESS RELEASE

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Pforzheim, 16.09.2022

### **Technological basis for mobility in transformation**

*As a development partner for its customers, the Witzenmann Group supports the transformation in all mobility sectors with great dynamism. At the IAA Transportation, Witzenmann is showing innovative applications for hydrogen, electromobility, and pressure accumulators.*

### **With great dynamism into the transformation**

For all renowned vehicle manufacturers, Witzenmann offers solutions in the most diverse areas that improve the service life and environmental friendliness of a vehicle.

The solid basis for this is formed by the competences established over many years:

- in the field of materials,
- in the forming technology of thin-walled metals,
- in extensive testing and validation facilities as well as
- in efficient process development from the smallest quantities to large-scale production.

### **Shaping change**

Alternative drive concepts, intelligent networking, and autonomous driving are shaping the mobility of the future and mean far-reaching changes for the automotive industry. For the automotive and commercial vehicle industry, Witzenmann supports this change with its expertise and develops solutions for a wide variety of drive concepts for road, rail, and sea.

### **Reliable in use where safe, efficient and sustainable mobility is required**

Components for cooling batteries and electric motors increase the efficiency of battery electric vehicles.

The temperature-resistant (up to 900 °C) battery degassing lines serve to ensure safety.

The piping components are metallically tight, designed for high pressure and a wide range of temperatures. They are also resistant to hydrogen embrittlement - fundamental requirements for use in hydrogen engines.

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### **Energy efficiency with innovative bellows solutions**

Freedom from maintenance and energy efficiency were at the forefront of the development of the pressure accumulator with innovative bellows solution. Installed in automotive chassis, it serves to store and recover energy and ensures safety and comfort. Unlike pressure accumulators with elastomer bladders, elastomer diaphragms or separating pistons, for example, the bellows is permanently gas-tight. This makes it suitable for numerous other applications where freedom from maintenance is required or desired. With consistent product properties over its long service life, this component generates low life cycle costs.

### **Cooperative Mindset**

The challenges of sustainable mobility require new approaches to cooperation and realisation. As a member of the Hydrogen Engine Alliance, Witzenmann, together with other important representatives from industry and research, promotes and supports the expansion of hydrogen technology as an essential pillar of climate-neutral mobility.

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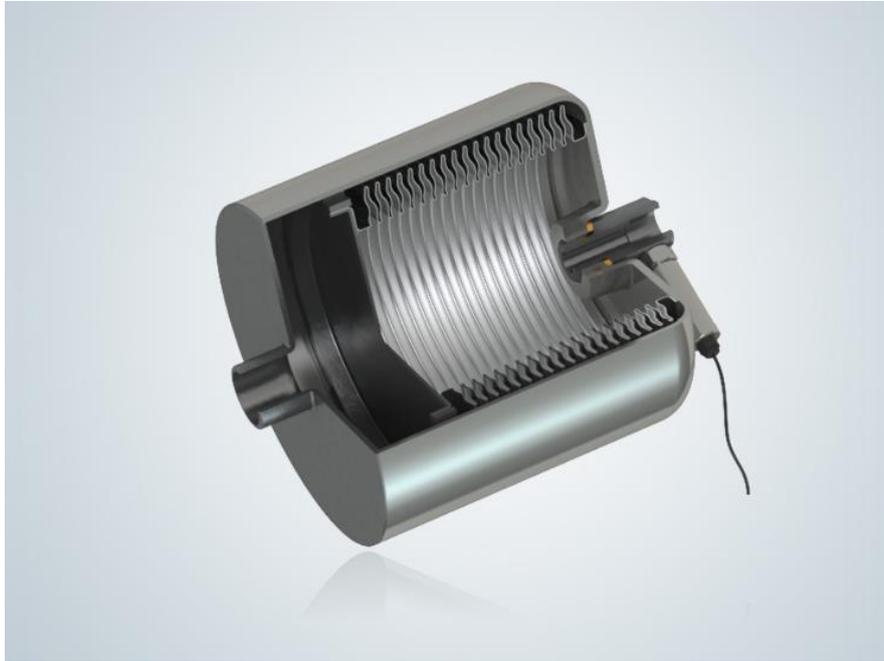
### **The Witzenmann Group**

The Witzenmann Group is the world's leading expert for safe and efficient transmission of media and energy for mobility and industry. Its headquarters are in Pforzheim. With a total of 22 companies in 17 countries worldwide, the family-owned company employs around 4,300 people. In 2021, a turnover of 620 million € was achieved.

In accordance with the company motto "managing flexibility", Witzenmann, as an experienced development partner with the world's widest product range of metal hoses, expansion joints, metal bellows, pipe supports and vehicle parts, offers its customers from a wide variety of industries intelligent product solutions and services.

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**Photo 1: Pressure accumulator with gas-tight metal bellows**



**Photo 2: Components for fuel cell, H<sub>2</sub> , CO<sub>2</sub> , cooling and other media**

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**Photo 3: Battery cooling lines**