THE GROUP

With 24 companies in 19 countries
Witzenmann is the worldwide Number 1 in our industry.

World leader
Witzenmann is a global group specialising in the design and manufacture of flexible metal elements. Guided by our vision of "managing flexibility", our company has become renowned as a reliable manufacturer and as the innovative development partner of choice within the industry. Today, Witzenmann offers the widest product range worldwide for the most diverse areas of application. This enables us to offer the correct solutions time and time again.

Assuming responsibility
By signing the Declaration of Accession the Witzenmann Group is committed to The Ten Principles of the United Nations Global Compact. The initiative by former UN Secretary General Kofi Annan is derived from the "Universal Declaration of Human Rights", The International Labour Organization's "Declaration on Fundamental Principles and Rights at Work" (ILO) and The Rio Declaration on Environment and Development.
Always close to the customer
One of our corporate principles is to manufacture our products close to our markets. In practice, this entails establishing extensive local knowledge both in production and engineering. To ensure this, we apply comprehensive qualification measures at our Competence Centre in Pforzheim and provide the respective subsidiaries with the appropriate Witzenmann technology. The strong technology network within the group enables us to address global trends and develop the corresponding solutions. This has made us an innovative leader in our industry.

Fast service, economical production
Closeness to our customers also means, of course, being able to offer fast service on site. In the case of inspections, repairs or plant renewals, this involves short delivery times of our products, and when planning new plants or designing pipelines, this means having fast, easy access to the expertise of our engineers. By the same token, our numerous affiliates worldwide have their own assembly department. This makes the entire process fast and economical.

The group's international technology network in Europe, Asia and America generates advantages in terms of operating efficiency and innovative strength.
Durability and reliability are a must for a company that strives for quality leadership. "HYDRA – Quality by Witzenmann" is not just based on DIN ISO 9001, but also on a large number of national and international registrations and certifications such as EJMA (Expansion Joint Manufacturers Association), ASME (American Society of Mechanical Engineers) or U-Stamp (Boiler and Pressure Vessel Certification). Therefore, our customers now include all major manufacturers. This is reason enough for us to consistently enhance the qualitative development of our product solutions.

This not only reflects the expertise of each individual employee – but also the quality of our processes.

Spin-off effects from other markets
Witzenmann is involved in many highly specialised markets. These include, for instance, aerospace, nuclear power and even medical technology. These are all fields in which maximum functional reliability is required under demanding operating conditions. This is one of the factors which, thanks to our multi-faceted expertise, makes us a sought-after development partner around the world.
CORE COMPETENCE

At the beginning of the 50s, the manufacturing of flexible metal hoses was started at the Albert Speck GmbH. In 2002, Albert Speck then became a fully owned subsidiary of the Witzenmann Group. Today, Witzenmann-Speck is concentrating its efforts on developing and producing stripwound hoses, as well as on assembling corrugated hoses, metal bellows and expansion joints. Apart from the continuous development of existing products, the "systemic" overall approach at Witzenmann-Speck is becoming increasingly important.

System partner for original equipment manufacturers

Thus, today together with the OEMs, not only are the latest, flexible components being designed, developed and implemented – the engineers from Witzenmann-Speck are also being increasingly included in the consultation and implementation of complete systems. The basis for this is the extensive range of products, technical expertise and the absolute determination to make the extraordinary a feasible reality. This was also the beginning of the flat rectangular channels for controlled domestic ventilation. Today, Witzenmann-Speck is a market leader with several systems in this field and a sought after design partner for the OEMs.

Particular strength: Speed

When implementing new ideas from prototypes to series production, the development engineers rely on experience, expertise and direct access to their own R+D resources. For this reason, after brainstorming together with the OEMs, functional prototypes are often on the table amazingly fast – as the basis for a subsequent series production. The rapid interpretation of ideas into technical solutions: one of the many strengths of Witzenmann-Speck. Witzenmann-Speck now also utilises this in the configuration, assembly and production of expansion joints for a broad variety of applications.

Hose expertise for sanitary equipment and industry

HYDRA shower hoses for bathroom and kitchen applications as well as innovative and flexible design elements represent an important feature in Witzenmann-Speck’s portfolio. In the sector of stripwound hoses and corrugated hoses for industrial applications, Witzenmann-Speck is a manufacturer and sales partner with an extensive product range designed for an extremely wide range of operating conditions – pre-assembled and provided with all kinds of connections.

Know-how and experience are the basis for the technologically-advanced engineering of Witzenmann-Speck.
HYDRA® PRODUCTS FOR INDUSTRY

Flexible metal hoses in various nominal diameters

Corrugated hoses
Corrugated hoses are mechanically formed from seamless or longitudinally welded tubes and are available in a variety of wall thicknesses, material types and packaging from DN 4 to DN 300. These are used to convey pressurised fluids and fluids in a vacuum in an absolutely leak-tight manner. The hoses are used to compensate movements, thermal expansion and vibrations within piping systems.

Applications
- Pressurised or vacuum-sealed gas, water, hydraulic or refrigerant lines in technical building equipment
- As pressurised hoses in the chemical industry and vacuum technology or as a noise and vibration-damping equalising piece
- As a conveying hose in heat exchangers and stratified storage systems
- Oil, fuel and exhaust gas lines in the automotive industry

Stripwound hoses
Stripwound hoses from Witzenmann are wound from strips of material in various profiles depending on the respective application and specifications from DN 1 to DN 1000. The industry's broadest product programme ranges from the highly flexible metal hose with engaged profile through to the sturdy interlocked protective hose. The flexible metal elements are used as heat and ageing-resistant components in exhaust gas technology, for example, as protective conduits and conveying hoses.

Applications
- Medical technology
- Lasers for industrial applications
- Glass fibre
- Optoelectronics
- Technical endoscopy
- Extraction and conveying hoses for dust, chippings and pellets

HYDRA® PRODUCTS FOR INDUSTRY

Expansion joints from DN 20 to DN 1200

Axial Expansion Joint
Powerful standard and special designs are cost-efficient solutions for simple compensation tasks. Adjusted for versatile use in all applications with clearly defined moderate fixed-point forces. Multi-ply metal bellows designs made of stainless steel are available within a short time in numerous different nominal diameters and with a selection of connection options.

Details
- Stainless steel bellows, single-ply and multi-ply
- Special designs: inner sleeves, special materials, deviating flange drill templates
- With and without connecting parts

FLEXPERTE®
Specially designed for designers, "FLEXPERTE" is a PC software application for dimensioning and presenting expansion joints, metal bellows, flexible metal hoses and pipe supports. The menu-based application aids in the calculation and design of these products.

For more details, please visit www.flexperte.de

Details
- Design of standard expansion joints
- Preparation of technical Data Sheets
- Preparation of Enquiries
Highly flexible gas hoses acc. to European standard

The hose meets the requirements of the harmonised European standard DIN EN 14800 and the highest standards of safety even under tough operating conditions.

Three-layered design

- Highly flexible and pressure-tight HYDRA stainless steel corrugated hose ensures that gas is carried safely
- Stainless steel braiding for absorbing mechanical loads as well as permitted tensile loads
- Easily cleaned PVC covering to protect against contamination and aggressive household cleaning agents

The Innovation on the Gas Installation Market

The HYDRA GS gas installation system is a genuine innovation. What’s new about it?

The incredibly easy technology. HYDRA GS is available as a Click System for easy installation without hydraulic tools or as a Press System using hydraulic tools for fast and effective installation across a distance. Country-specific approvals ensure that HYDRA GS systems fulfil all requirements for a long and safe service.

Advantages

- In just a few steps, the hose can be cut to the required length, equipped with the proper fittings and easily bent by hand to fit into recesses, corners or lead-throughs
- Cost and logistical advantages increase as the project scale increases.

Reliable protection for pipelines

HYDRA expansion joints for gas applications are approved according to DIN 30681 and guarantee stress-free and safe pipe installation. They absorb system vibrations and movements and thereby protect the piping system against damage.

Characteristics

- For absorbing vibration in drying ovens, gas engines and gas control systems
- For use in gas supply or burner feed lines
- Reduction of power and torque transmission in the area of the connection fittings
Reliability in the daily use
Pull-out hoses in household and professional kitchens are under heavy stress from tensile, pressure and crushing loads. The HYDRA high-performance hoses guarantee permanent fail-safe use. The specially developed safety profile combines high flexibility with maximum robustness. The patented joining technique combines the inside and outside hose as well as the connection fittings into a firm, inseparable connection and are easy to clean. Worldwide drinking water approvals go without saying for us.

Optimally co-ordinated design
Our wide range of products allow us to coordinate our fittings to match modern, high-quality kitchens and bathroom interiors in terms of surface, appearance and colour. Together with leading fittings manufacturers, Witzenmann-Speck develops flexible outlets in needs-oriented functionality and according to the highest demands for interior design.

For the highest demands
The individual style of the design line, designed specifically for the HYDRA high-performance hoses, give our high-quality kitchen shower hoses a unique appearance. Whether you are looking for a round or square design, these hoses create a discreet yet striking appearance in a modern kitchen and bathroom design.

The safety inlet hose
The HYDRA stainless steel safety inlet hose is approved by the DVGW for drinking water application and is therefore the appropriate connection between equipment and water fittings for food products. Its special design – inside a pressure-tight annularly corrugated hose - outside a safety sleeve hose – with standardised connection fittings – makes it extremely versatile. Bursting or leakage is not possible. The corrugation profile of the inside hose enables turbulences of the water, which prevents the build-up of calcium deposits or bacteria – the hose cleans itself.