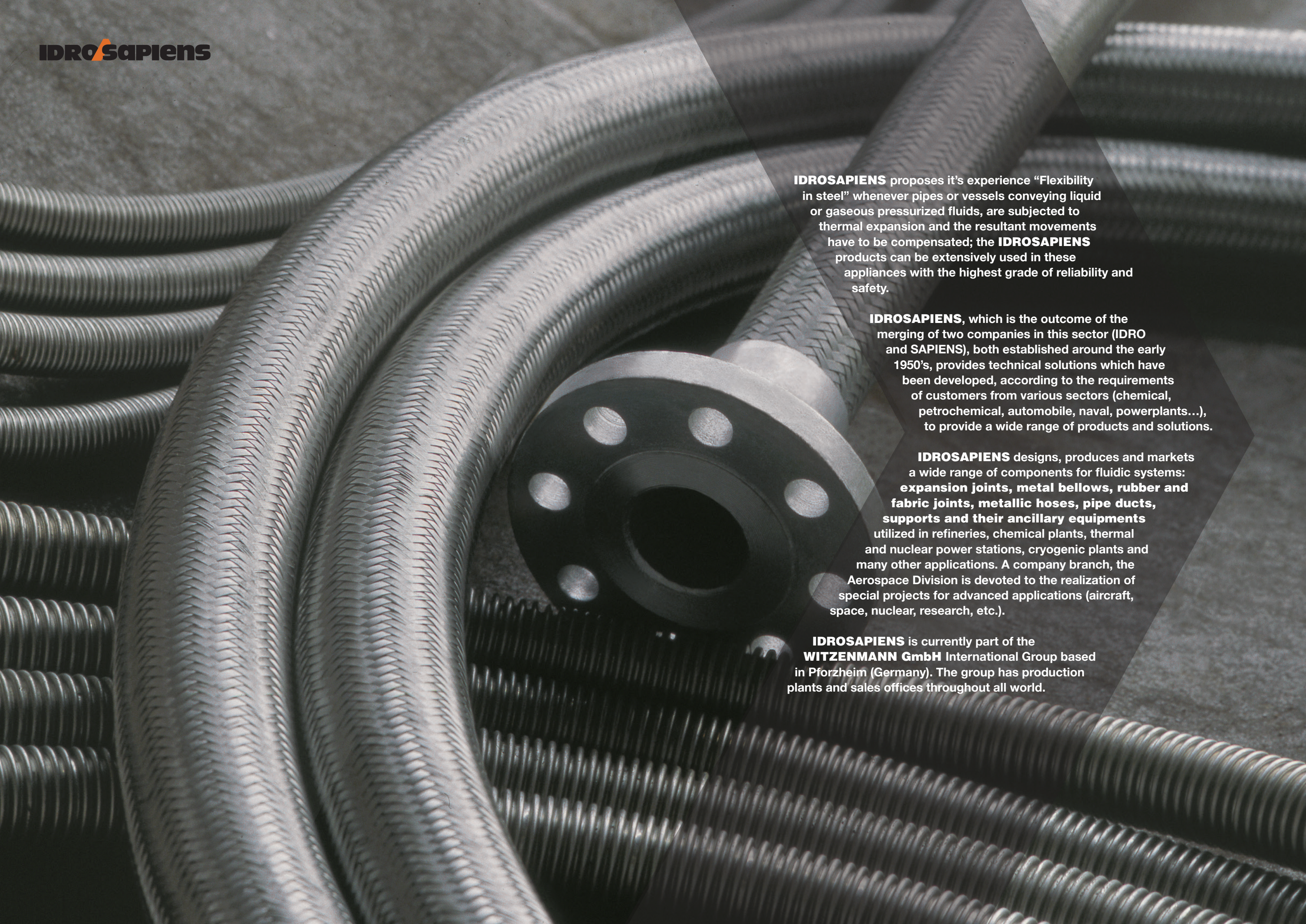




**IDRO**SAPIENS

FLEXIBILITY in STEEL



The background of the entire page is a close-up photograph of several large, braided metal hoses. In the center-right, a circular metal flange with six bolt holes is visible, partially overlapping the hoses. The lighting is dramatic, highlighting the texture of the braiding and the metallic surfaces.

**IDROSAPIENS** proposes its experience “Flexibility in steel” whenever pipes or vessels conveying liquid or gaseous pressurized fluids, are subjected to thermal expansion and the resultant movements have to be compensated; the **IDROSAPIENS** products can be extensively used in these appliances with the highest grade of reliability and safety.

**IDROSAPIENS**, which is the outcome of the merging of two companies in this sector (**IDRO** and **SAPIENS**), both established around the early 1950's, provides technical solutions which have been developed, according to the requirements of customers from various sectors (chemical, petrochemical, automobile, naval, powerplants...), to provide a wide range of products and solutions.

**IDROSAPIENS** designs, produces and markets a wide range of components for fluidic systems: **expansion joints, metal bellows, rubber and fabric joints, metallic hoses, pipe ducts, supports and their ancillary equipments** utilized in refineries, chemical plants, thermal and nuclear power stations, cryogenic plants and many other applications. A company branch, the Aerospace Division is devoted to the realization of special projects for advanced applications (aircraft, space, nuclear, research, etc.).

**IDROSAPIENS** is currently part of the **WITZENMANN GmbH** International Group based in Pforzheim (Germany). The group has production plants and sales offices throughout all world.



## **IDROSAPIENS** THE COMPANY

- **CAPACITY to “SUPPORT”** the customer in the definition of the product and system requirements deriving from the absolute knowledge of the proper product (typologies, applications, realization methodologies, testing and control, limit check, etc.);
- **CAPACITY to “COOPERATE”** at any level with the most important companies operating in the aerospace market establishing strict connections with them and, in some cases, operating as “qualified partners” for specific product branch;
- **TECHNICAL KNOWLEDGE** utilization of powerful and technologically advanced design and testing methods: CAD and FEM programs, self-assembled programs allowing the core-product (bellows) automatic design and optimization, benches to test the designed items under environmental and load conditions simulating the real operations;





**EXPANSION JOINTS**

IDROINOX expansion joints are employed in piping systems, equipments and all other cases to accommodate thermal expansion. The first IDROINOX expansion joint was designed and manufactured in 1941. Since then our expansion joints line widened and improved to meet the most sophisticated appliance required by the ever constant progress of technology. The experience gained in the field advised to give a more homogeneous and methodic arrangement to our production. To this production line to facilitate the collaboration already existing with our Customers.

**METAL HOSES**

Metallic hoses are most ubiquitous in their application. This is in evidence from the numerous uses to which these products are put in all fields of engineering. Whether as delivery hoses in chemical industry or vacuum engineering, as protective tubing for the most varied functions in building services, or as flexible suction and blowing tubes in wood and metal finishing, whether in motor vehicle manufacturing or textile industry: REX-INOX and HYDRA® metallic hoses fulfill all demands to the highest specifications. The characteristics of our metallic hoses are as varied and their fields of applications.

**RUBBER, FABRIC AND PTFE EXPANSION JOINTS**

ERV expansion joints are very flexible and can absorb movements in every directions, they solve several problems that are typical in pipelines and connected equipment movement (i.e. stocking reservoirs), rolling, misalignment, unproper erection; damping of vibrations due to pumps, compressor and similar equipments; noise reduction; damping of water hammer; dismounting joints (i.e. for valves); cut off of the metallic continuity in pipelines and protection against stray currents; compensation of thermal expansion and damping of vibrations in water pipes on ships and vessels.

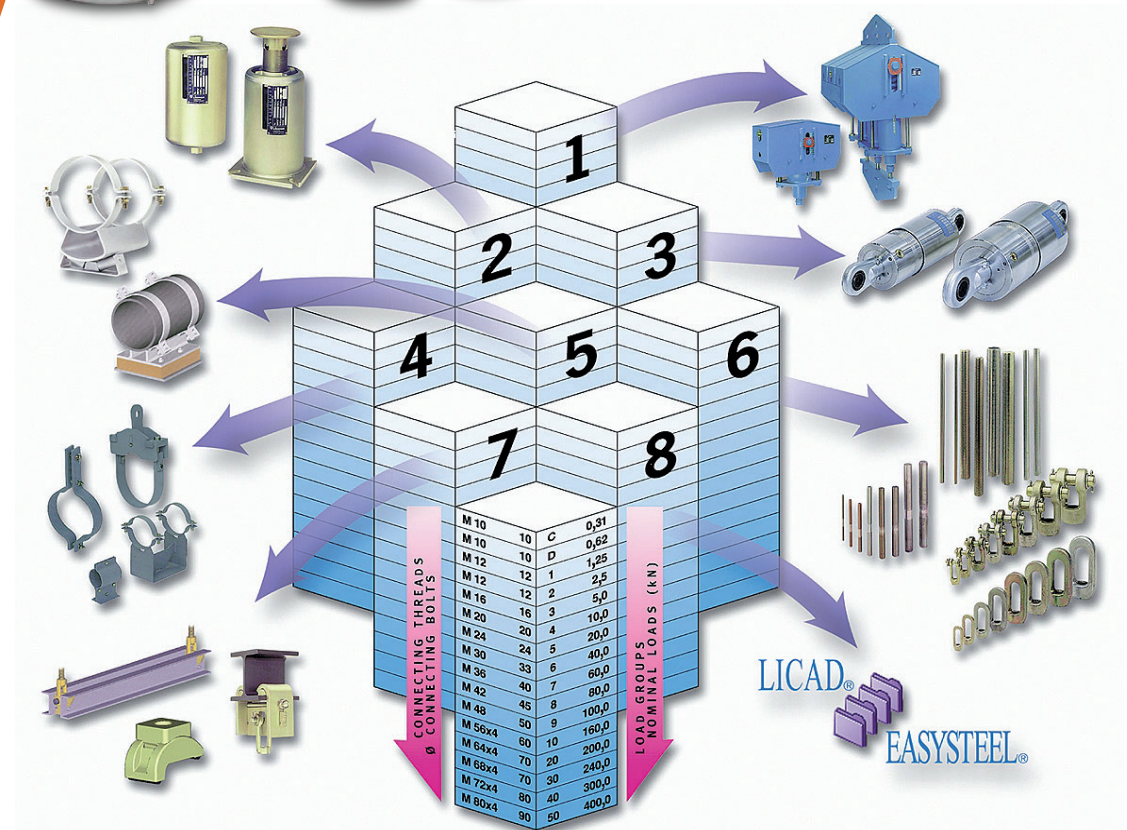
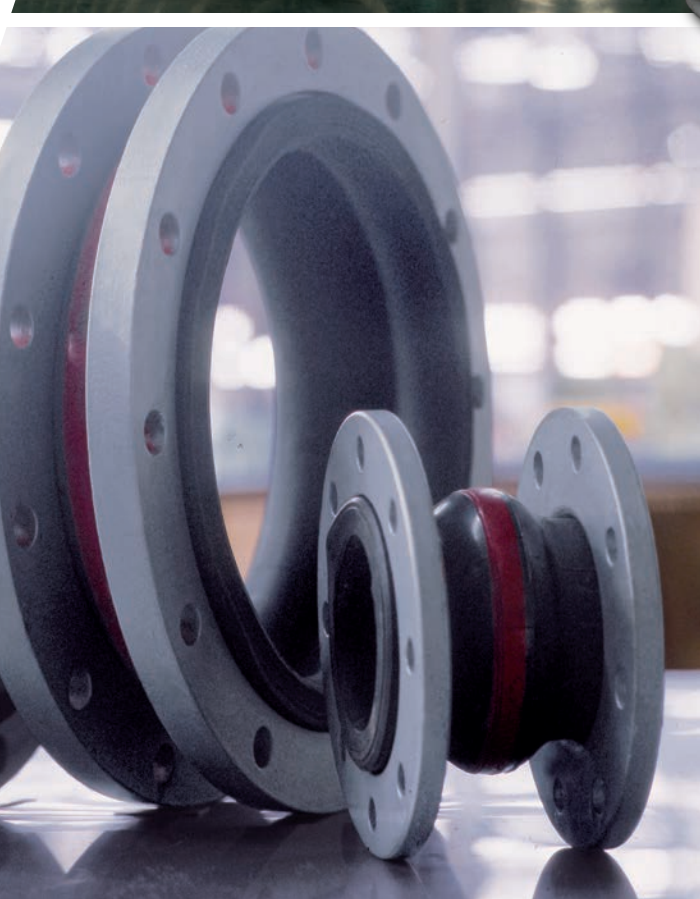
**PIPE SPRING SUPPORTS, HYDRAULIC SHOCK ABSORBERS AND PIPE ROLLS**

IDROSAPIENS production range includes: elastic supports with constant load, elastic supports with variable load, hydraulic and mechanical dampers and Sliding rollers for pipes. This range also includes all components for supporting and fixing pipes (bands for horizontal and vertical pipes, forks, and tie rods) and the new products (cup disk®, insulated cold supports and others)

**AEROSPACE, NUCLEAR AND RESEARCH**

IDROSAPIENS Aerospace Division, with it's research and development department, laboratory, manufacturing facilities and dedicated Quality Assurance system, it's able to develop, qualify and deliver reliable components for the aircraft, space industry, nuclear with high experience in cryogenic environments

please download our catalogues.



The LISEGA® modular system products





# IDROSapiens

**Idrosapiens S.r.l.**  
A company of WITZENMANN group

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