

high
performance
in motion

senior
FLEXONICS

Corrugated Hoses, Expansion Joints and Bellows for
Industrial Engineering || Land Vehicles and Engines || Renewable Energies || HVAC

We stand firm!
Motion, heat, cold,
pressure and time constraints



Senior FLEXONICS

Highly specialized in global structure

Wherever highest safety under extreme temperatures, pressures and aggressive media is of importance or where the adherence to emission limits is required within low tolerances, products are needed that fulfill each requirement reliably and precisely. Senior Flexonics develops and produces custom components and systems for sensitive or rough environments and the most demanding industrial applications, especially for the aerospace and automotive industries, energy technology and other specialized sectors.

Lean processes, short development times as well as the worldwide consistently high quality standards of our products provide you with the highest level of efficiency and safety. A differentiated quality and environmental management system is naturally a prerequisite for our work – especially as we work in areas related to safety and environmental protection.

The pressure and temperature-resistant conveyance of media in complex, flexible systems is our passion.



high performance in motion

Based on our extensive experience, we know exactly what is technically possible and how far the limits of feasibility can be pushed. In addition, we consistently research what could be useful and necessary tomorrow. We observe markets to recognize needs and to develop solutions that are ahead of their time.

Confident of our high proficiency, we eagerly face every market and customer challenge. As a development partner, we want to provide our customers with intelligent and superior solutions. As a problem solver and reliable system provider, our services help to ensure the quality of our customers' products in the long term. High-quality corrugated hoses, expansion joints and bellows from Senior Flexonics last safely and consistently, because they are excellently tailored to the demands of our customers and their markets.

1**Trust based on better performance**

The best solutions in terms of quality, time and costs always come from us with an unexpected additional benefit for you. This may range from another technical solution to an additional process-optimizing idea.

2**Reliability due to fast response times**

Our superior response times to inquiries, during projects, and in production ensure the best possible support for you.

3**Growth through ideas**

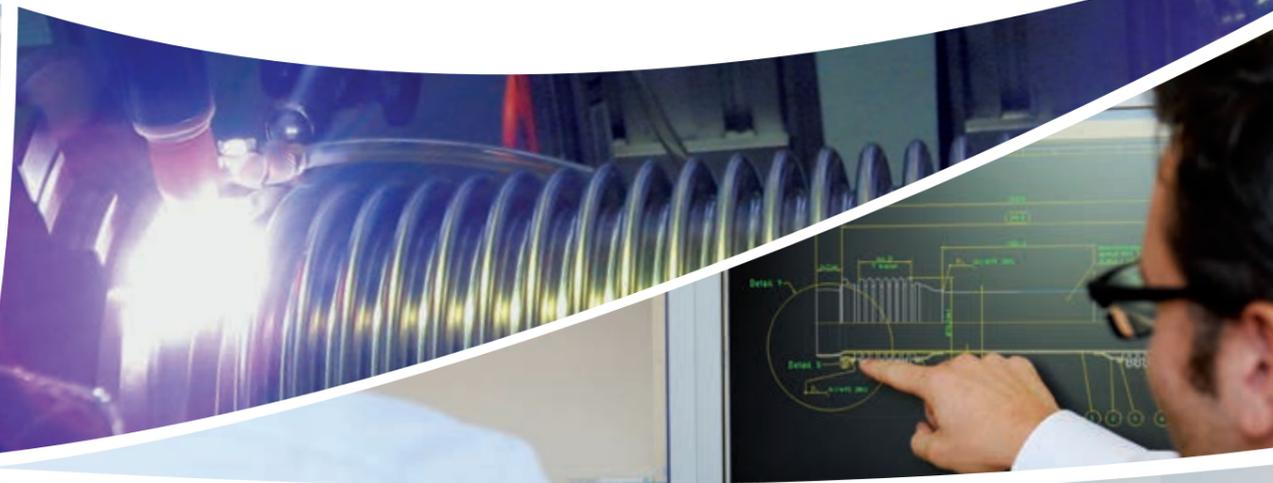
We are always looking for new means, products and services to make continual improvements and to support you with suggestions on how to optimize your products and processes.

From solution to serial production without detours, in the highest quality

Basically, we see ourselves as a development partner for our customers, who not only focuses on individual components or parts but takes the overall functionality into consideration. Each development is carried out on the highest technical level. Our engineers and technicians develop solutions for you that are perfectly tailored to your demands. Via CAD data transfer we ensure the direct communication with your engineers during every project phase virtually in real-time. We are ready to be on your side from the start of the new developments and would be happy if you would request our services early on.

We therefore invest in research and development to be ahead of the market requirements. Central building blocks are the further development of existing and the constant development of new products and production processes.

Your satisfaction with our services is the basis for a long-term and trusting collaboration and our central goal. We want to be successful with you. Therefore, we offer everything in-house: calculation, simulation, design, prototyping, tool making and test stands. Efficient processes, short development times and high quality standards guarantee top proficiency in all areas: from innovative product concepts to application developments based on known and current technologies.



ZERO - Errors, Waste and Accidents

With our internal quality system, we provide the best possible basis for a perfect product. In order to ensure continuous improvement, we are constantly working on our holistic business processes. The focus is thereby on efficiency, reaction time as well reliability. In regards to quality management, we possess certificates pursuant to DIN EN ISO 9001 and ISO/TS 16949.

In addition, we strive to use energy and materials in an efficient and resource-friendly manner. With our environmentally friendly production processes we take a stand for our responsibility to the present generation and those to come. This is emphasized by our environmental management certified pursuant to DIN EN ISO 14001 and the environmental statement pursuant to EMAS.

Our comprehensive occupational safety management ensures the reduction of occupational accidents and promotes the sense of responsibility of our employees. This ensures a responsible collaboration in all work areas.

Therefore, our "SQS" is a philosophy that provides our company and you as our customer with direct benefits.

Experience is good, with global knowledge it is even better

For more than 100 years, we have been an international specialist for corrugated metal hoses, metal bellows and expansion joints. Our product portfolio has developed tremendously since. Across our complete product range, we provide standard types as well as special solutions and are constructing individual products exactly as you need them.

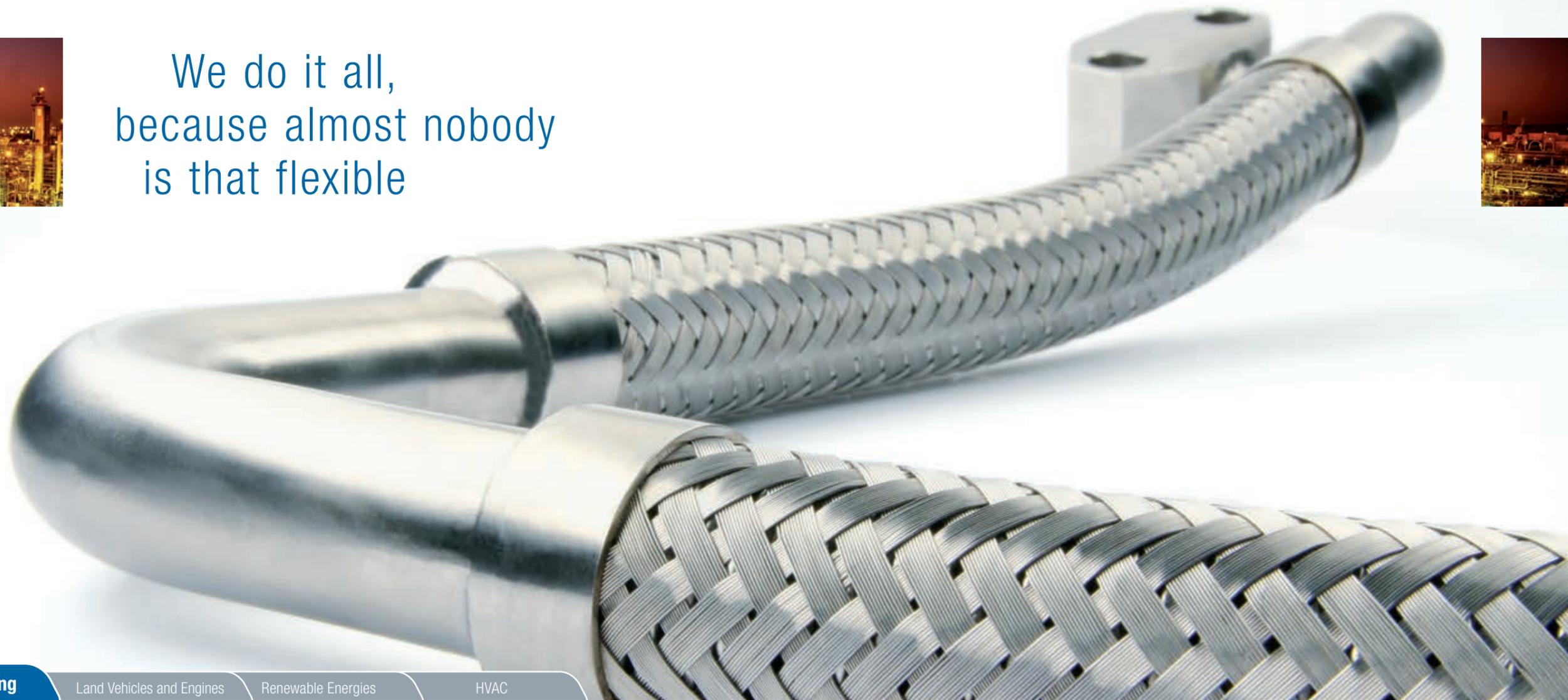
In our production processes, we focus on highest quality. Aside from the standard forming processes, hydraulic forming is one of our priorities. A process that not everyone has mastered but that enables us to create any custom geometry possible. In addition, it is a material-friendly forming process with great reproducibility and thus ensures highest product quality.

Besides mere product development, we also test new or optimized manufacturing technologies. The focus is thereby especially on the areas of the forming and joining technology, a prerequisite in the manufacturing of flexible, metal elements.





We do it all,
because almost nobody
is that flexible



Industrial Engineering

Land Vehicles and Engines

Renewable Energies

HVAC

We quickly and specifically develop and produce individual products and solutions in the area of industrial engineering tailored to your requirements. Senior Flexonics knows what is technically possible today. We produce an above average variety of products in serial production as well as custom products and small batches for specialized applications.

Iron metallurgy Where extreme temperatures and rough conditions take effect, we guarantee error free operation

Chemistry/Petrochemistry Various corrugated hose constructions, single or multi-walled bellows or expansion joints fulfill maximum requirements for the safe transport of critical media

Vacuum industry Highest purity is our top priority. Our products are guaranteed to fulfill even the most precise requirements

Technical Gases For the transport of technical gases under high pressure and at very low temperatures, our products are the right choice

Wood/glass/paper industries Our products have already been used in the machines of the wood, glass and paper processing industries for many years

Mechanical engineering We provide the necessary precision and highest quality for the manufacturing of cutting-edge machines

Plant construction We are guaranteed to have the right products for a variety of industries and their plants

Power generation Our approach: energy production for the most efficient energy consumption

Liquid natural gas (LNG) Many years of experience, extensive know-how and close cooperation with the customer are the basis for our innovations and our high quality





Reach your goal quickly and efficiently

Industrial Engineering

Land Vehicles and Engines

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Products from Senior Flexonics for applications in the land vehicle and engine technology fulfill your requirements precisely and permanently. In this area especially, the requirements regarding safety and environmental production increase in shorter and shorter intervals. A challenge that we daily face head on with our individual product developments.

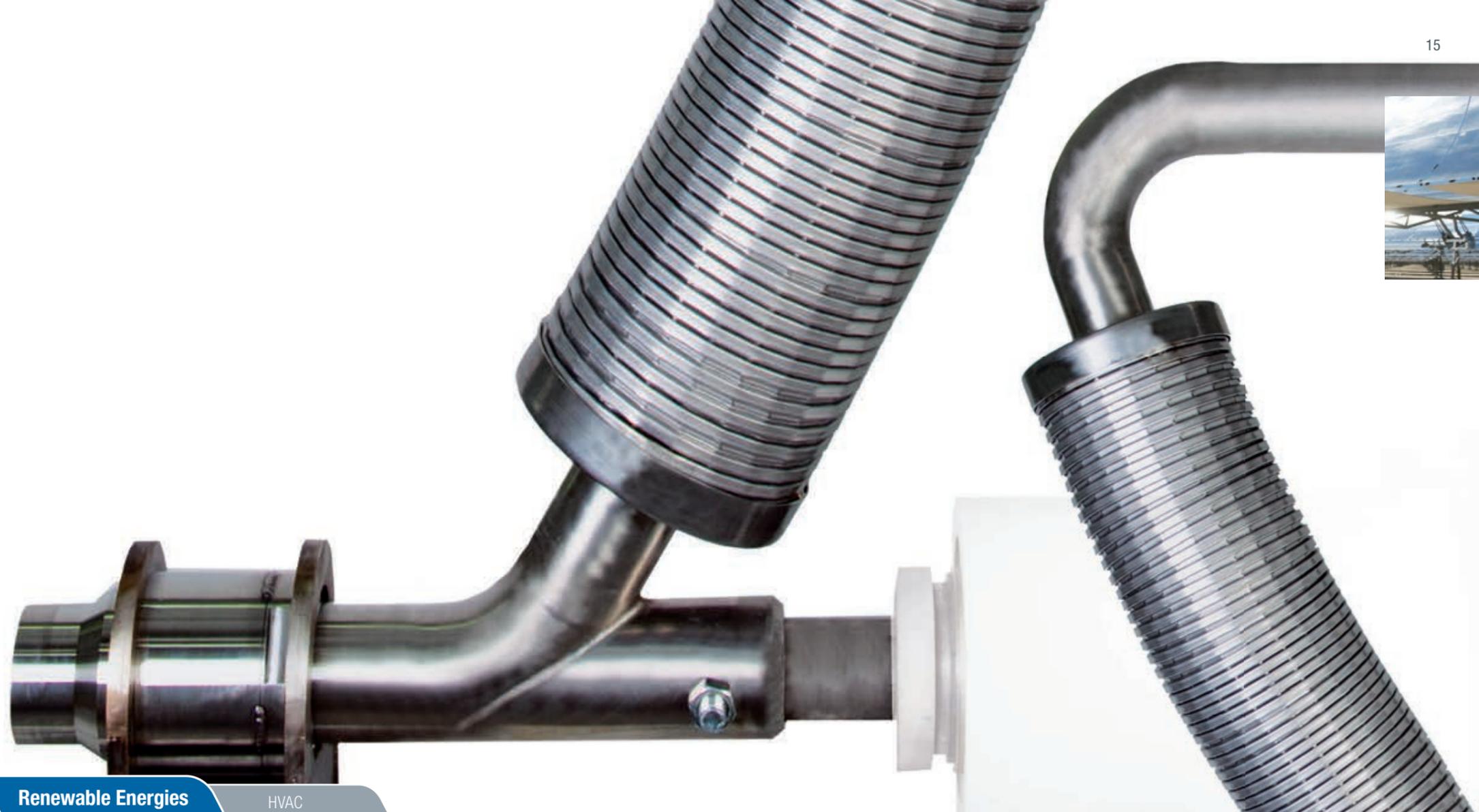
We develop components and systems for various environments and the most challenging applications. Our products are used in cars, transporters, buses, medium or heavy duty trucks and special vehicles and are on the road worldwide. With our presence on all five continents, we can serve you locally and provide you with logistically optimized solutions.

Our products in the area of motor and exhaust gas technology fulfill the strictest performance requirements and create options to operate vehicles in a more efficient and cleaner way. In addition, we serve the complete spectrum for the compensation of thermal expansions, installation tolerances, vibrations and relative motions between the different system components. We reliably transport a variety of substances such as oil, water or coolants in our products. The material selection is always based on your specifications regarding temperature and corrosion resistance, compressive strength, among others. We develop the connection design individually according to your specifications. That way you will always receive an optimum result.





The best alternatives



Industrial Engineering

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We offer an extensive spectrum in the area of renewable energies: our products are weather resistant and can withstand enormous pressures and temperatures as well as mechanical stress due to motion. All our products are designed for a maximum life span and the highest safety and provide sustainability and efficiency.

Our products have been used in all areas of the regenerative energy production for decades. With our know-how and our experience from many years of collaborating with partners from the energy industries, we are absolutely prepared for future applications.





From the basement to the roof,
from cooling to heating,
electricity, gas or water



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Our products can be found in all areas of building technology. From heating systems, gas pipes and gas water heaters to the water supply of the building, ceiling cooling systems and solar technology. Flexible Flexonics hoses and connections impress with their high quality and long service life.

Building water supply Our flexible stainless steel water pipes guarantee highest hygienic safety

Gas water heater Easy to install and permanently save elements for gas transport

Home Solar technology Weather-proof connections optimally coordinate the solar energy system and the building technology

Combined heat and power (CHP) We provide individual solutions for all operating modes of thermal power stations

Heating system manufacturer Streamlined, pressure-resistant tank-to-boiler-connections without heat loss

Ceiling cooling systems The right indoor climate increases efficiency – we provide the products for it

Sprinklers Be prepared with efficient modules from Senior Flexonics

Solar cooling Collector connections and tank-to-cooling machine connections



We are there, where you need us

Many of our customers are active worldwide and globally oriented. As part of the internationally operating Senior Group with production sites in thirteen countries all around the globe, we guarantee a direct local availability and presence. For our customers we are present with our group of companies on five continents. With global and specific supply chains, we ensure that the correct components are always available, in the required amount, on time, on the spot.

Worldwide, our customers benefit from top performances in all areas. We master a variety of variants from small batches to large scale productions as well as individual customer projects. Thanks to the reliability of our components, we guarantee a service life that is exemplary.



● Locations Flexonics ● Locations Aerospace





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