



**Connecting Tradition with
Modern Technology**

DEKOMTE de Temple
Expansion Joint Technology

Günther de Temple
Architect of the company



Francis Bacon (1561 – 1626), the founder of empiricism, already expressed the thought for those who wanted to know:

»Knowledge is power!«.

DEKOMTE de Temple Kompensator-Technik is founded on a knowledge culture which is related to the development of fabric expansion joint technology. The need to embrace a knowledge led approach is paramount to bridge the gap of the product and the increased critical operational demands of industry. Philosophy is at the centre of all our actions and has been woven as a stable and basic element in the determining of our company performance, and development of the DEKOMTE knowledge culture. DEKOMTE has led the way with technical development and diversification, whilst remaining focused on the importance of technical details. Thoroughness and a clear-sighted approach have made the most of the extensive experience and best working practice. The goal is the constant narrowing of the gap between technical and economical progress. The task of manufacturing high-performance expansion joints requires a multi-disciplinary design process, with the broadening of the company abilities into specialist engineering roles. The company guidelines form an essential and crucial basis to allow for technical and business progression, whilst maintaining the culture of the company.

The uniqueness of DEKOMTE is distinguished by the cooperation with noted universities and institutes to show clearly the state of the technological qualified progress of the fabric expansion joint technology. We regularly publish the information we have gained through empiric experiences. We are ready to take over responsibility beyond the delivery of a fabric expansion joint; we take a personal interest in the development of a technical relationship with our customer, through the exchange of technical experience.

DEKOMTE group has developed into a powerful multi disciplinary technology centre which is known for innovation of modern construction systems and their application; furthermore as a specialist for high-performance expansion joints for the exhaust of gas turbine plants in critical operating regimes.

DEKOMTE holds a leading technical scientific position across the world. DEKOMTE's experts are invited to give

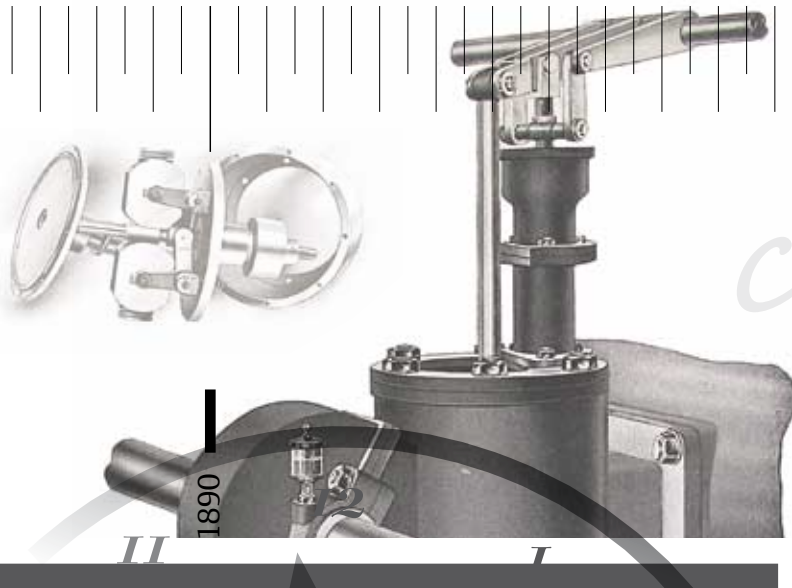
lectures at national and international symposia and seminars about the »state-of-the-art« knowledge in expansion joint technology. More than 300 employees with personal responsibility impact on the operation and future shaping of the company. These people are the future inspiration in developing the technical and economical growth of the company.

DEKOMTE de Temple with a qualified clientele that are intent on having »state-of-the-art« technology has the position of a global flexible company. It influences market change and economic progress for its customers by its responsiveness and participation in the specialist field of expansion joints.

The performance of the DEKOMTE Company is regulated by the well honed value system and internal guidelines. The aim to achieve customer satisfaction is what ultimately allows the continuation of the company and all it represents.

Past, Present and Future

Creation of the Knowledge Culture



$$a = \frac{\Delta l}{l_0 \cdot \Delta v}$$
$$c = \frac{m \cdot \Delta v}{\gamma}$$
$$\gamma = \frac{\Delta V}{V_0 \cdot \Delta v}$$

1978

1980

Foundation of the Company



de Temple steam regulator

DEKOMTE de Temple



The firm of DEKOMTE de Temple Kompensator-Technik was founded at a time when the technical requirements for expansion joints was rising at an unprecedented rate. In 1978 the company's founder, Günther de Temple, continued a family tradition under the motto »From regulator to expansion joint« as the de Temple name had already been associated with reliable steam engine regulators since 1890. Today, the name of DEKOMTE de Temple stands for high-tech expansion joint technology.

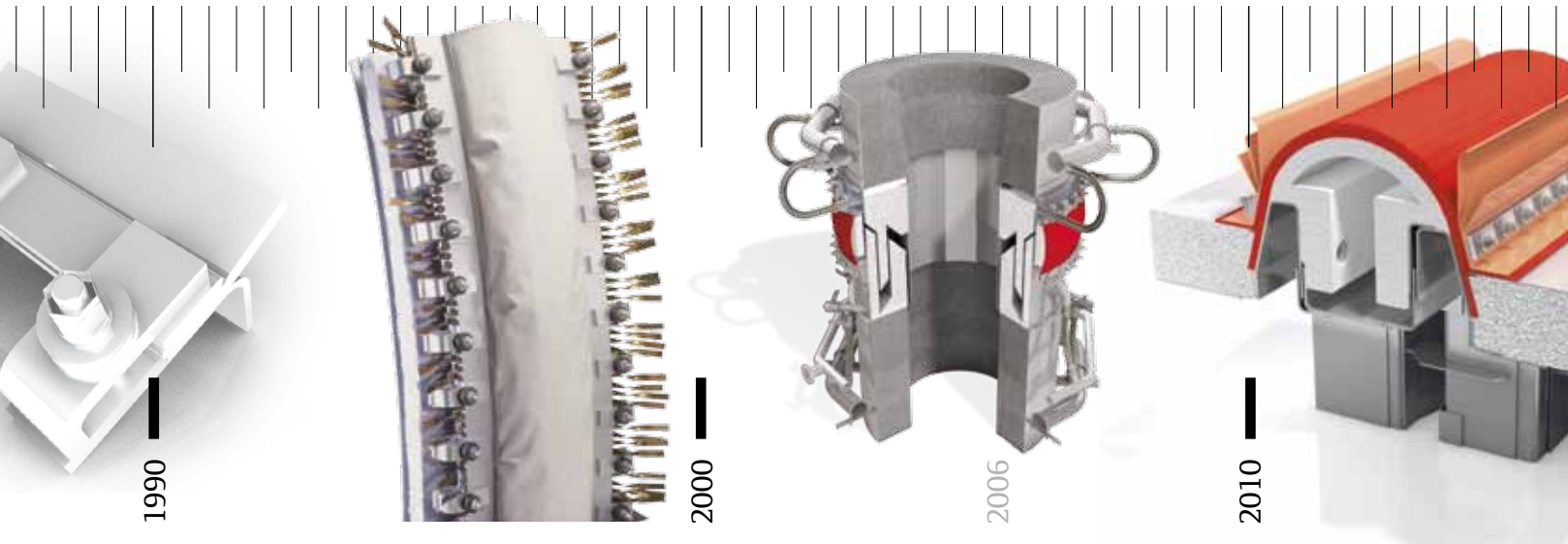
The first subsidiary of DEKOMTE de Temple Kompensator-Technik was founded in 1980, namely the company DEKOMTE Benelux in Oostende, Belgium. Afterwards further subsidiaries developed all over the globe to make the knowledge product available for a global demand.

The new DEKOMTE companies are able to make the knowledge culture of fabric expansion joints technology accessible and recognisable within their territories.

The integration with the individual market experience, expectations and requirements of working are intertwined with the DEKOMTE knowledge culture.

In 30 years of prominent professional company strategy it can be stated that DEKOMTE de Temple Kompensator-Technik and its subsidiaries have matured to a technological economical authority that has a determining influence on the market.

Our identity is not just shaped by tradition, but also by all the different people working in DEKOMTE. At the centre of our activities, externally and internally, is always the human being. He alone is the pre-requisite for a company and the existence of the company. Thus, every member of staff has become convinced to identify with our value system and the company objectives. Our value system requires, amongst other things, entrepreneurial behaviour, identification, competence, market orientation, innovation, loyalty, reliability and communication.



Design and Development



As a specialist engineering company we can offer complete project management, starting from the initial design to the maintenance of the expansion joint.

DEKOMTE de Temple not only manufactures fabric and stainless steel expansion joints and hoses, but also has unique competence in design, construction and maintenance.

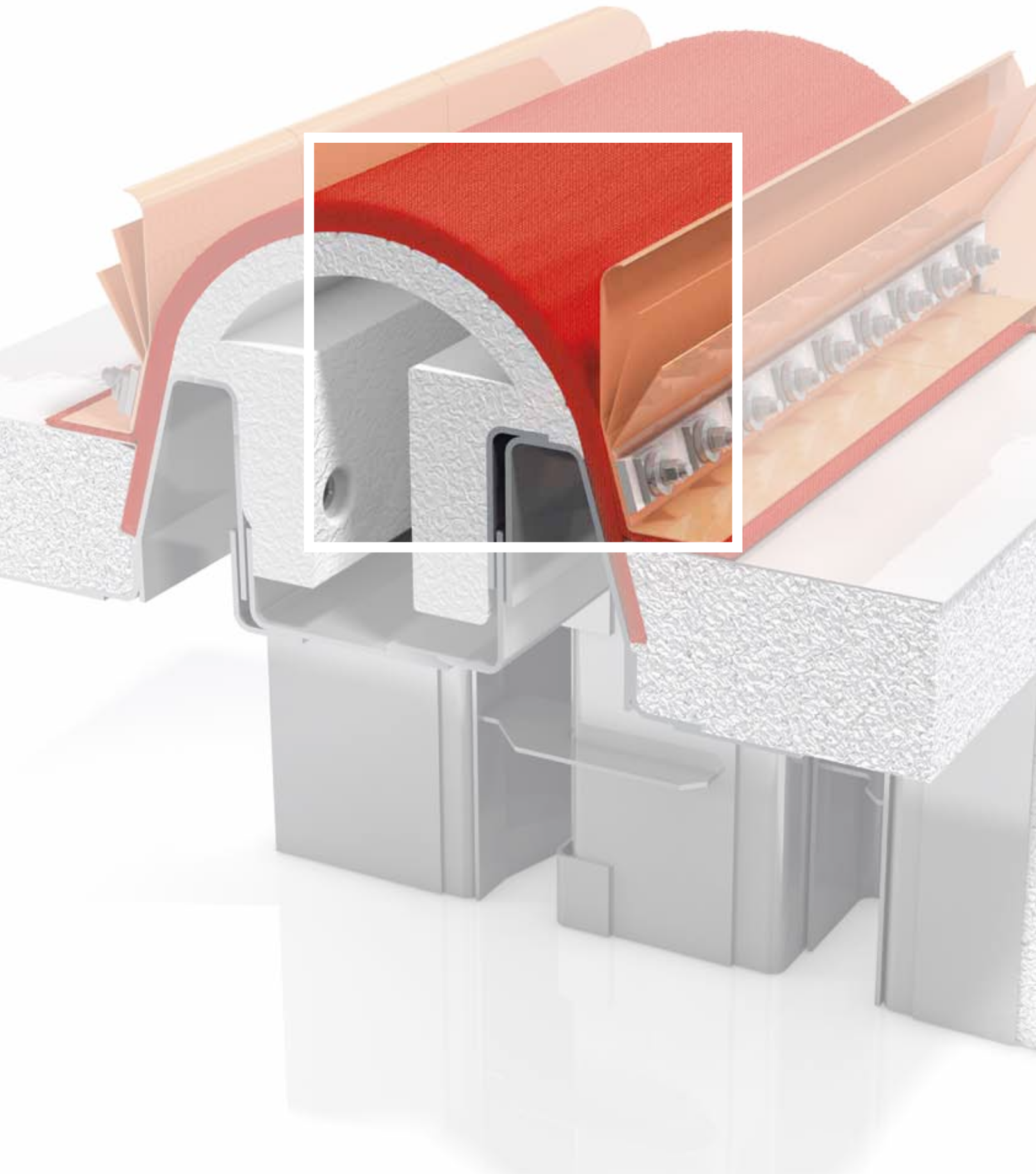
Engineering support in the form of annual inspections or life time assessments can form a critical part of the maintenance planning of a power plant or industrial manufacturing process. DEKOMTE is able to support and advise its customers on supply and installation appropriate to their requirements. The design of the expansion joint uses the latest materials and composition to optimise cost and technical function.

We provide a quality package comprising creativity, practical experience and technical expertise to be able to offer optimum selection of components and fully developed solutions.

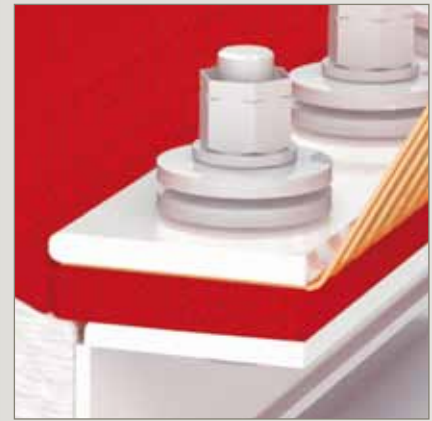
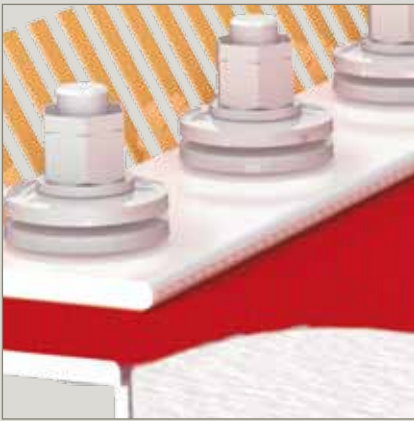
It is our main objective to be able to guarantee availability of a production plant - even under the harshest conditions over many years. This applies to steel and fabric expansion joints and is a justification of our quality claims.

Post-installation, the proven DEKOMTE customer service team is available to you at all times. It will help by answering questions as well as with the rapid and problem-free replacement of complete expansion joints.

We would like to make the technology of expansion joints as transparent as possible!



Fabric Expansion Joints



DEKOMTE supplies quality fabric expansion joints, made from many different materials. In principle, fabric expansion joints are best for gaseous media, such as air, exhaust gas and solvent fumes, particularly for operation below the dew point, in acidic environments, or for abrasive exhaust gases (e.g. containing coal dust).

A competent team of engineers and technicians are available with the latest computer models to provide temperature and displacement calculations or more specific final element models. New developments are implemented to optimise the life span of the expansion joints and their installations. DEKOMTE works in accordance with a wide range of production procedures, standards adhered to include RAL, TÜV, DNV as well as patented solutions.

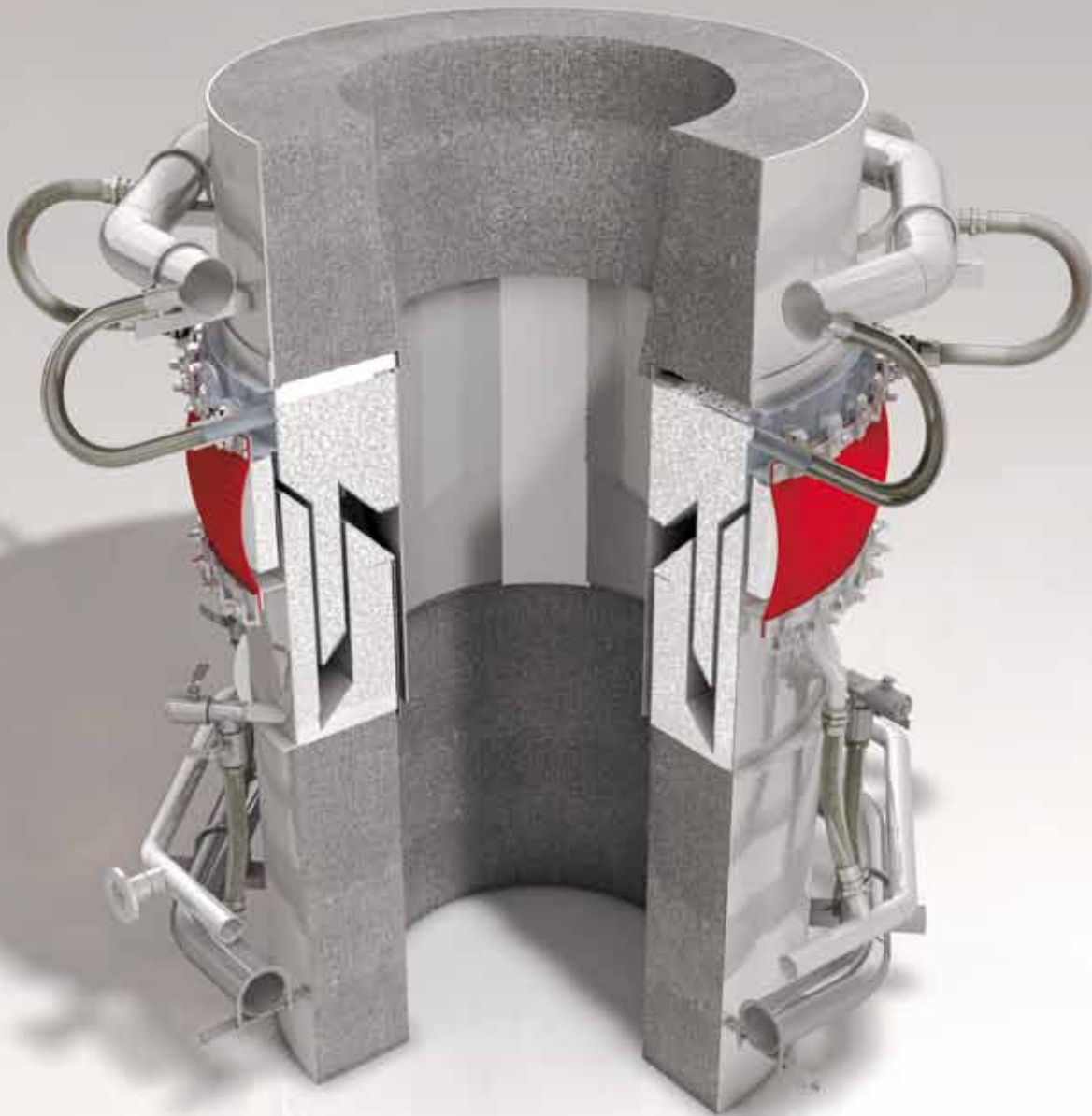
A quality manufacturing process, which is appropriate to the material being used, guarantees the highest reliability. Fabric Joints are constructed of multilayer temperature and corrosion resistant insulating fabrics. In addition, gas-tight films/foils of PTFE, Inconel, lead, stainless steel, aluminium, etc. can be supplied for special applications. Outdoor installations utilize abrasion resistant and non-ageing outer layers.

DEKOMTE fabric expansion joints can be supplied in any geometric shape and dimensions.

Thanks to a very flexible production team, DEKOMTE is very responsive with short delivery times, which of course minimises our customers outages.



Complete Plant Solution



The DEKOMTE expansion joints are used in every branch of the industry to compensate thermal expansion in pipe systems. Typical applications are industrial incinerators and annealing furnaces, power plants, steel plants, petrochemical installations, pyrolysis and precipitators, HVAC, food industry and also the fireproofing of wall penetrations.

Reliability, performance and the technical and commercial guarantee requirement, means that DEKOMTE de Temple has developed into a complete turnkey solution provider.

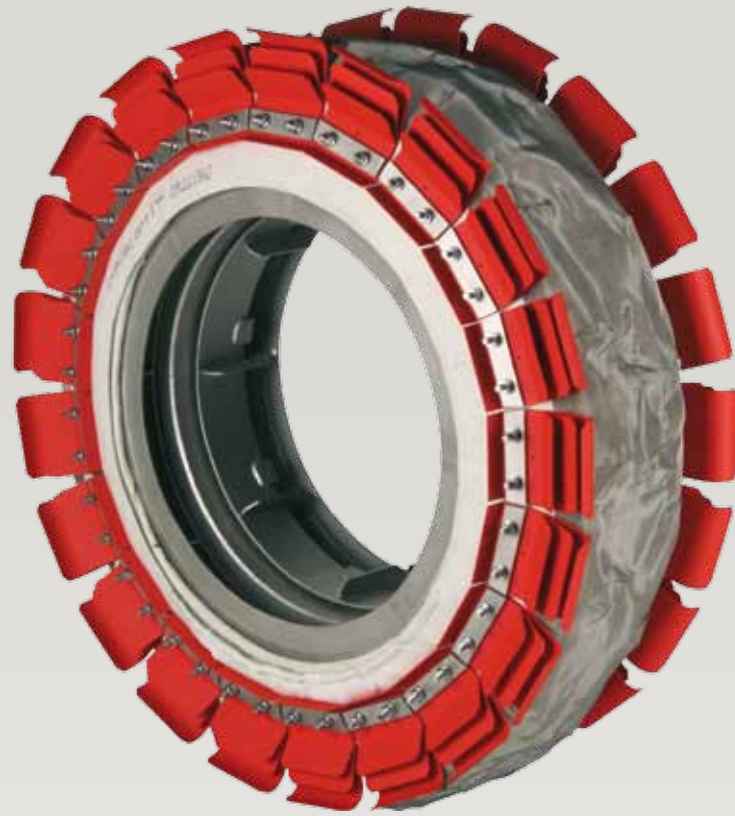
The expansion joint is a central part of the total solution scope of supply. On a simple level the delivery of a complete installation unit with steel and fabric parts pre-assembled requires no construction and allows straightforward installation on site. On large projects the total project management of labour, materials and ancillary site services give the customer peace of mind for outage programming and competent high quality installation. During the construction of an

expansion joint, the adjacent insulation is imperative to give a reliable and predictable heat radiation and convection of the outer materials, without the risk of overheating.

The specification of the steel parts, duct stiffeners and supports are fundamental to the operational performance of the expansion joint. The design integration at an early stage can identify the best overall solution for a trouble free system.

Our own specialised site team guarantees a professional installation, supervision or start-up assistance.

DEKOMTE Complete Plant Solutions can make simple standard bellows as well as high tech expansion joints into a reliable, near maintenance free piece of plant.



Metal Expansion Joint



DEKOMTE steel expansion joints are individually engineered and manufactured. The production methods used facilitate round, square or any other geometrical section, using laminated construction benefiting from no welded corners.

Metal expansion joints are indispensable elements for pipeline technology. They are used to compensate for changes in length which arise in pipelines from temperature differences. In addition, they are able to absorb vibrations arising from pumps, motors, compressors or turbines. Axial, lateral or angular movements can be compensated.

DEKOMTE de Temple stainless steel expansion joints are manufactured of single-walled or multi-walled bellows. For temperatures up to 900°C, the standard material for bellows and piping is V2A or V4A. Special materials such as Hastelloy, Incoloy or Inconel can also be supplied. We manufacture all imaginable kinds of expansion joints, this means axial, lateral and angular expansion joints, cardan-joint expansion joints,

pressure relief expansion joints, chamber expansion joints and several other models.

Let us know your application, and we can advise the type of construction most suitable.



| | | | |
|---|----------------|---|----------------------|
|  | AUSTRALIA |  | MALAYSIA |
|  | AUSTRIA |  | MEXICO |
|  | BAHRAIN |  | PAKISTAN |
|  | BELGIUM |  | POLAND |
|  | BRAZIL |  | RUSSIA |
|  | CZECH REPUBLIC |  | SAUDI ARABIA |
|  | EGYPT |  | SINGAPORE |
|  | FINLAND |  | SPAIN |
|  | FRANCE |  | TURKEY |
|  | GERMANY |  | UNITED KINGDOM |
|  | ITALY |  | UNITED ARAB EMIRATES |
|  | JAPAN |  | USA |





DEKOMTE expansion joints are used world-wide in the following applications:

- Coal, oil and gas fired power stations
- Open and combined cycle gas turbine
- Flue gas desulphurisation plant
- Nuclear power stations
- Waste incinerators
- Refineries
- Chemical plant
- Cement and lime works
- Steel works
- Industrial furnaces
- Painting and drying plant
- Dust collector and filter plant
- Ventilation plant
- Shipbuilding

Expansion Joint *Technology*
worldwide

www.dekomte.com



Contact Details

DEKOMTE de Temple
Kompensator-Technik (UK) Ltd.
Cotswold Business Village
London Road, Moreton-in-Marsh
Gloucestershire GL56OJQ
United Kingdom

Phone: + 44 845 4588125
Fax: + 44 870 4211540

E-Mail: info@dekomte.co.uk
Web: www.dekomte.com

