



**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

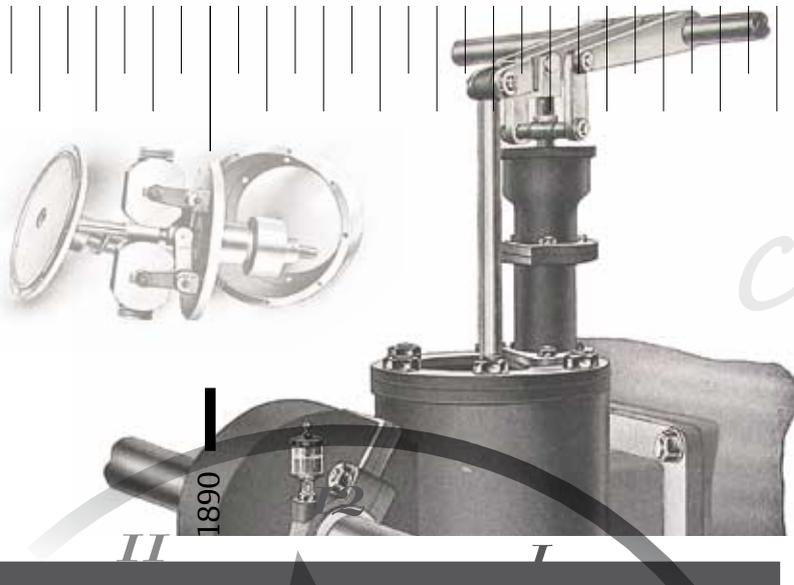
lectures at national and international symposia and seminars about the »state-of-the-art« knowledge in expansion joint technology. More than 300 employees with personal responsibility impact on the operation and future shaping of the company. These people are the future inspiration in developing the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

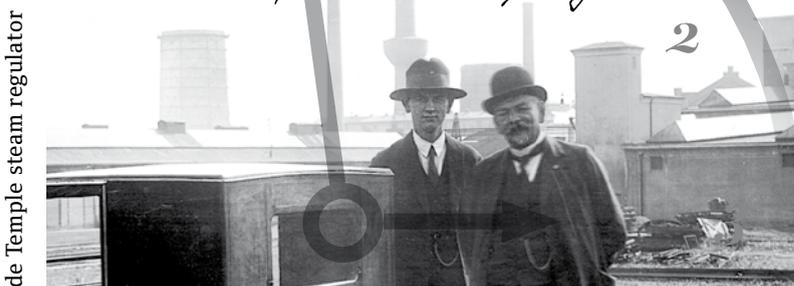


$$a = \frac{\Delta l}{l_0 \cdot \Delta v}$$
$$c = \frac{Q}{m \cdot \Delta v}$$
$$\gamma = \frac{\Delta V}{V_0 \cdot \Delta v}$$

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.

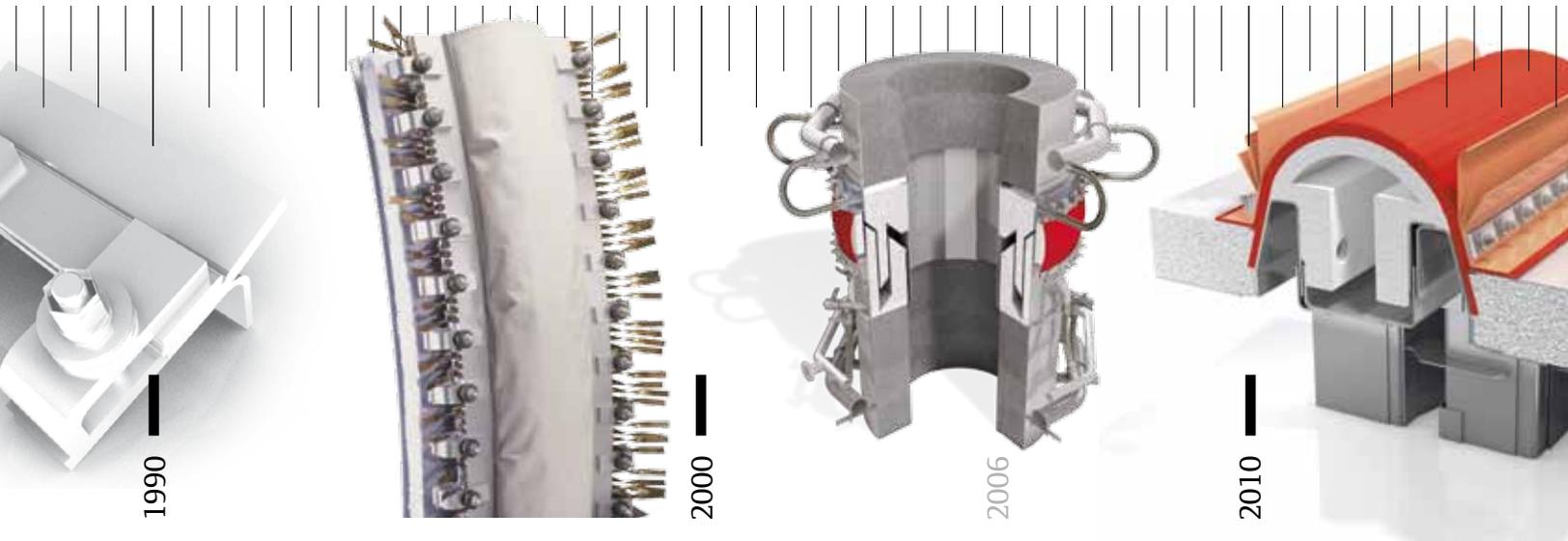
The first subsidiary of DEKOMTE de Temple Kompensator-Technik was founded in 1980, namely the company DEKOMTE Benelux in Oostende, Belgium. Afterwards further subsidiaries developed all over the globe to make the knowledge product available for a global demand.

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.

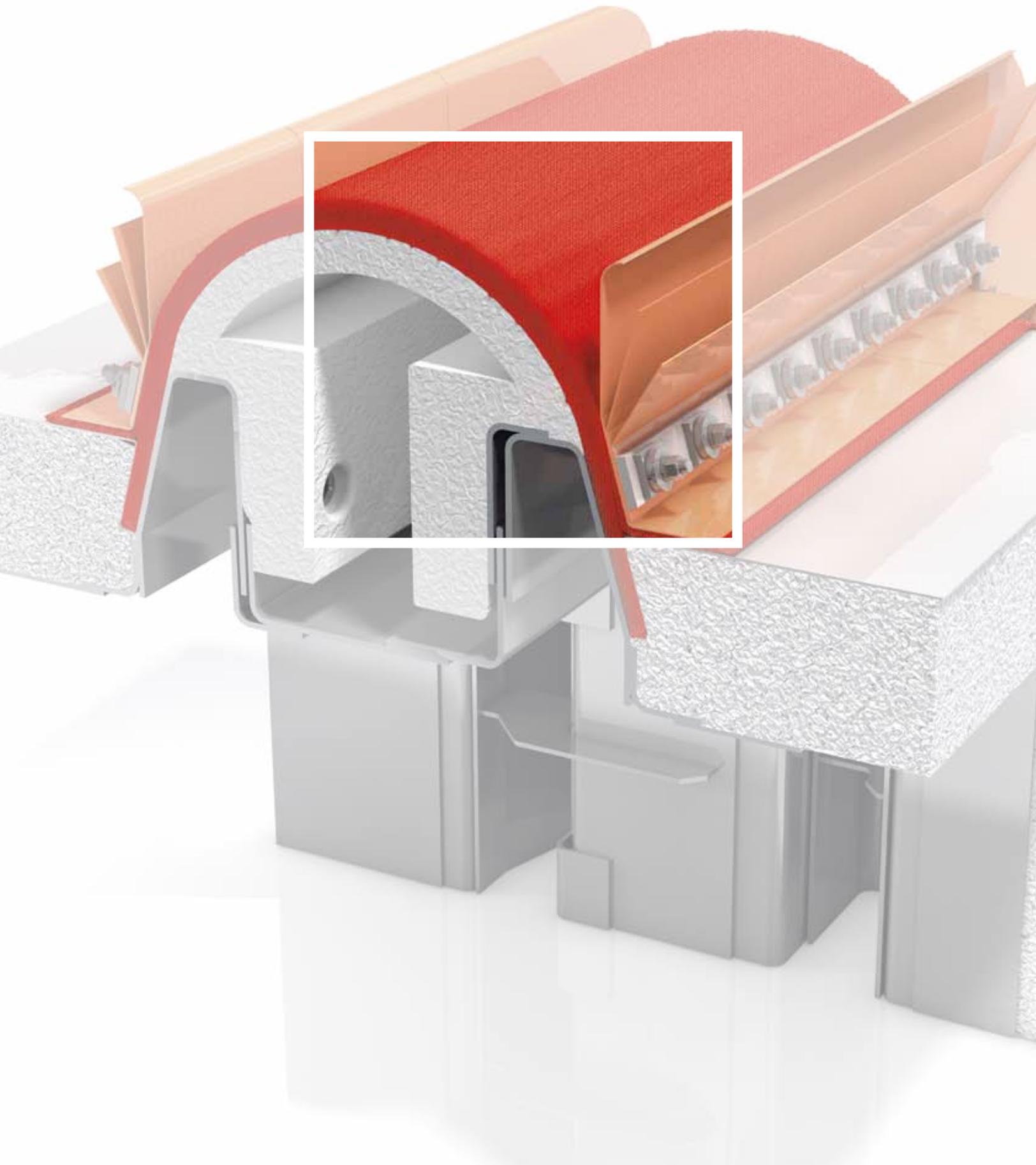
Engineering support in the form of annual inspections or life time assessments can form a critical part of the maintenance planning of a power plant or industrial manufacturing process. DEKOMTE is able to support and advise its customers on supply and installation appropriate to their requirements. The 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.

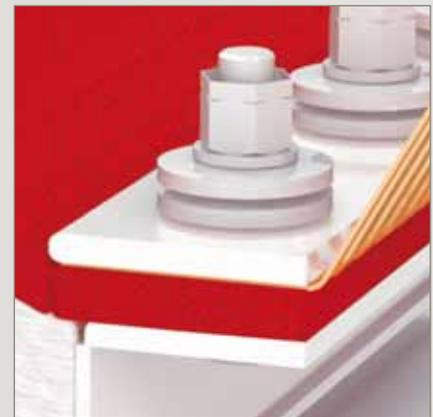
It is our main objective to be able to guarantee availability of a production plant - even under the harshest conditions over many years. This applies to steel and fabric expansion joints and is a justification of our quality claims.

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.

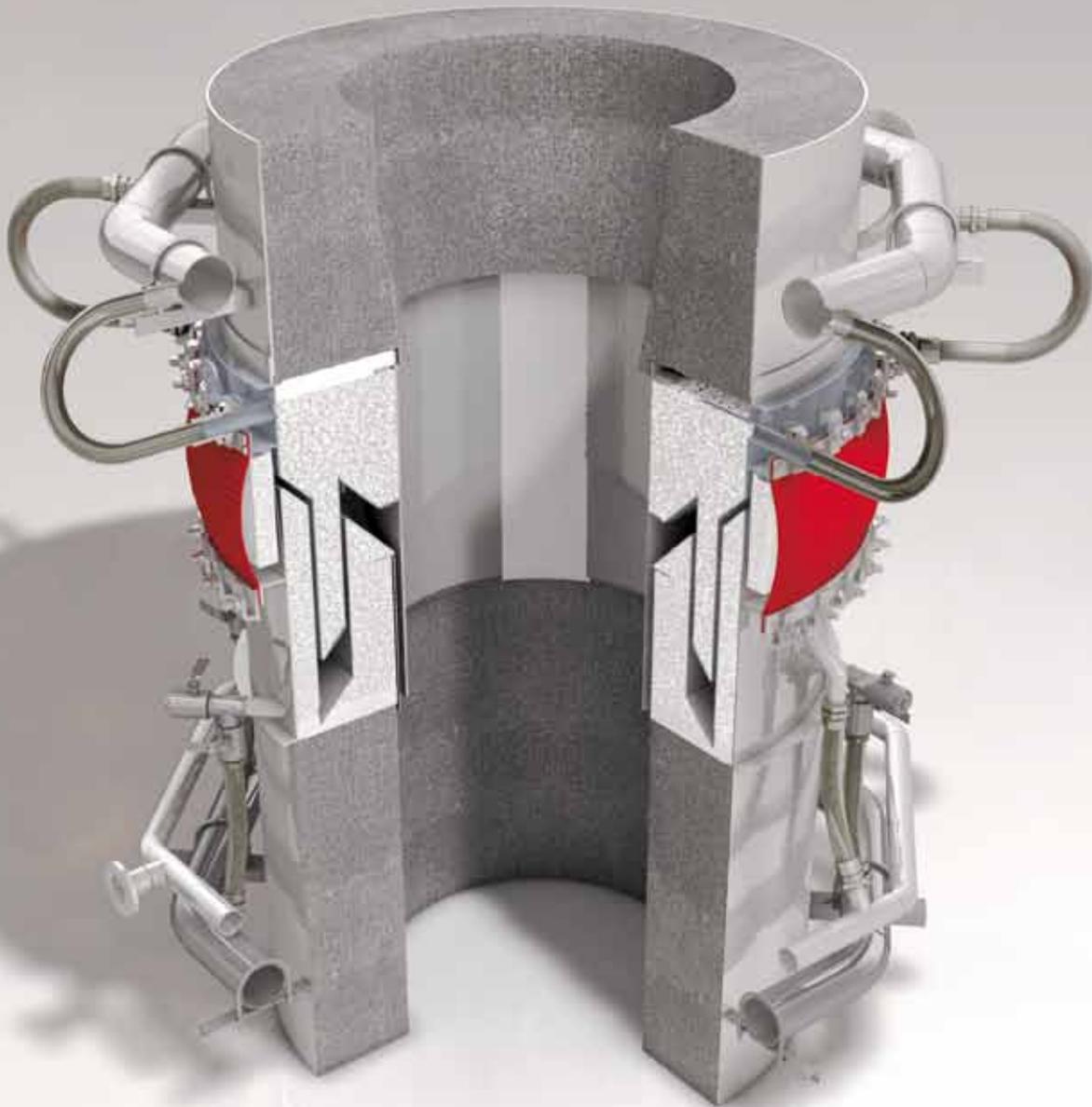
A quality manufacturing process, which is appropriate to the material being used, guarantees the highest reliability. Fabric Joints are constructed of multilayer temperature and corrosion resistant insulating fabrics. In addition, gas-tight films/foils of PTFE, Inconel, lead, stainless steel, aluminium, 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.

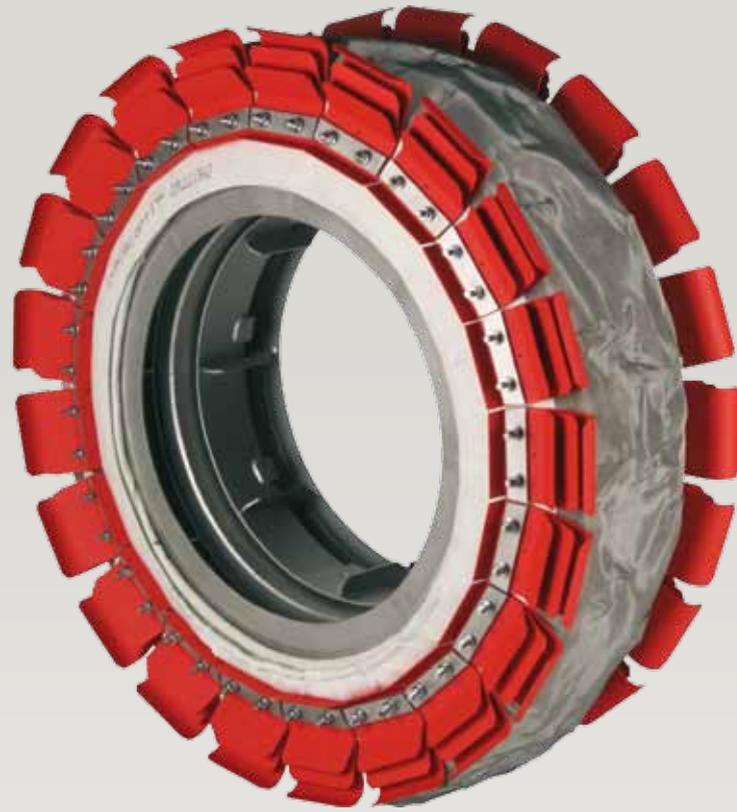
The expansion joint is a central part of the total solution scope of supply. On a simple level the delivery of a complete installation unit with steel and fabric parts pre-assembled requires no construction and allows straightforward installation on site. On large projects the total project management 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.





AUSTRIA



BAHRAIN



BELGIUM



BRAZIL



CZECH REPUBLIC



FINLAND



FRANCE



GERMANY



MALAYSIA



MEXICO



OMAN



ITALY



PAKISTAN



POLAND



RUSSIA



SAUDI ARABIA



SINGAPORE



SPAIN



TURKEY



UK



UNITED ARAB EMIRATES



U.S.A





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



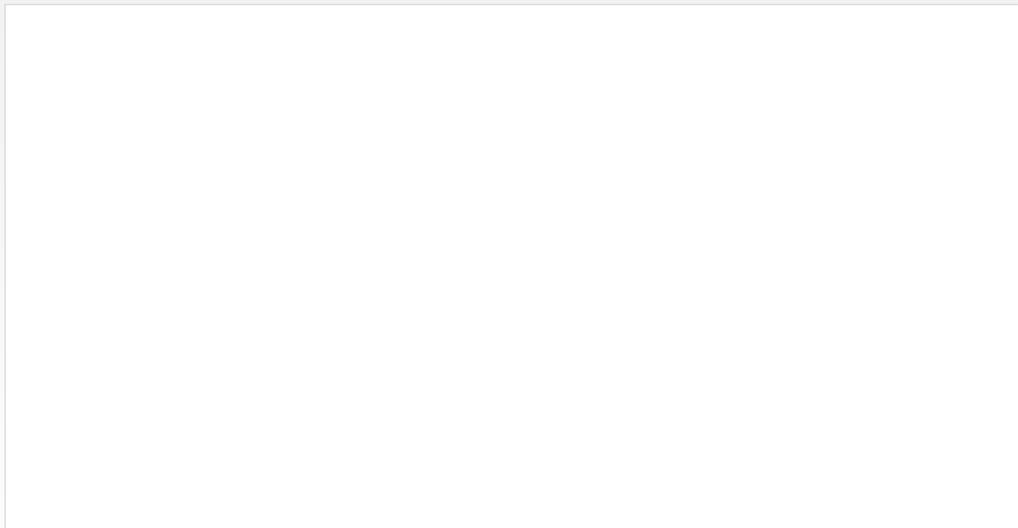
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1	DEKOMTE Company <ul style="list-style-type: none">- Company Profile- Address Register DEKOMTE worldwide- Certificates
2	Curve of probability / Guarantee
3	Technical Information RAL-GZ 719, incl. Questionnaire Fabric Expansion Joints
4	Fabric expansion joints
5	Metallic expansion joints incl. Questionnaire for rectangular and round metallic expansion joints
6	Stainless steel flexible hoses
7	Rubber and PTFE expansion joints
8	Examples of documentation for fabric expansion joints
9	Scientific publications DEKOMTE



Registered name and address

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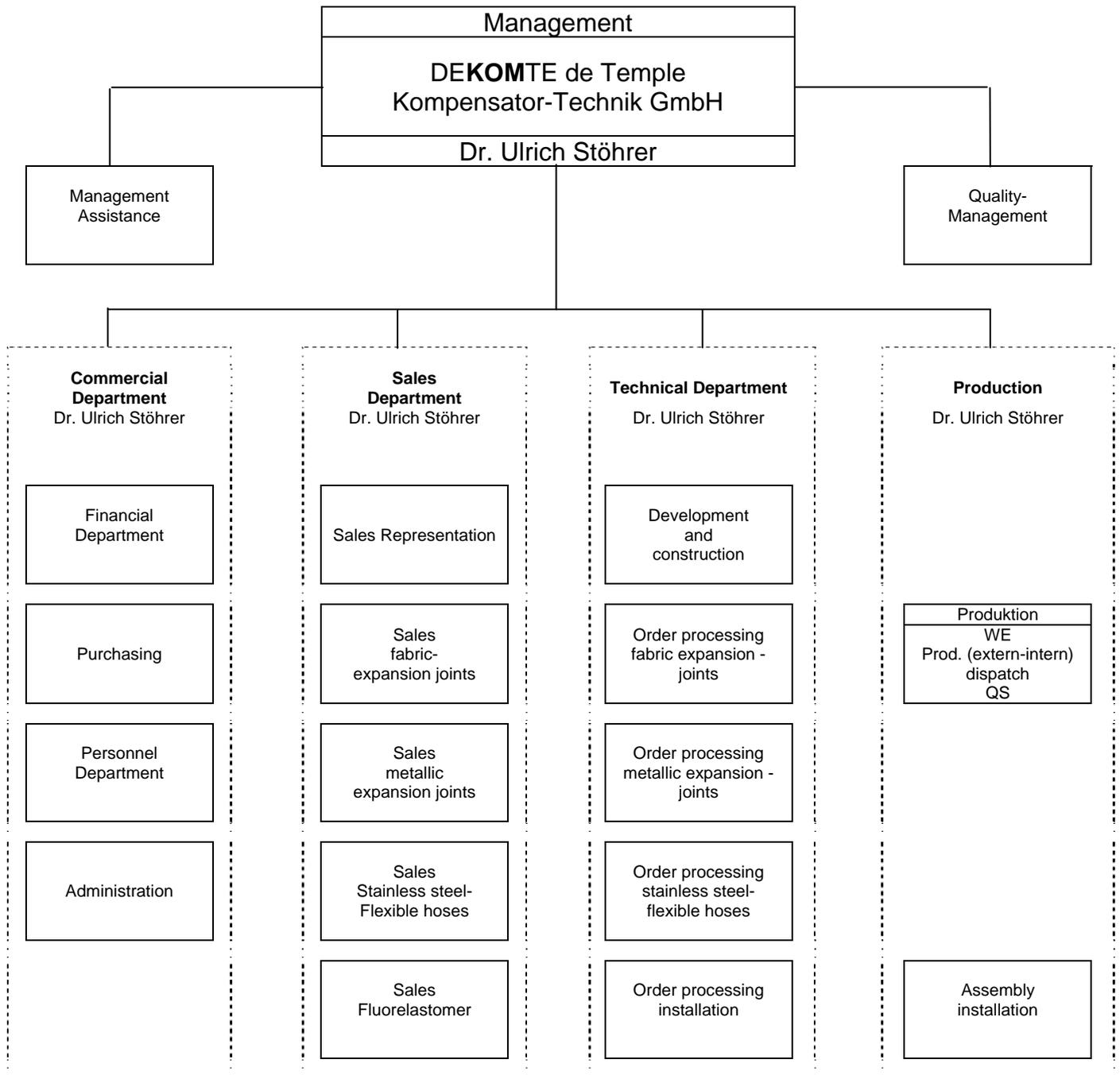
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- Commerzbank Frankfurt am Main BLZ 500 800 00, Konto 934 197 00,	IBAN DE79 5008 0000 0093 4197 00



Company structure





Commercial details

Founding year:	1978	
Turnover of group:	2010	21,0 Mio. EUR
	2011	19,8 Mio. EUR
	2012	25,8 Mio. EUR

Number of employees

Total of group:	340
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Quality control accreditation

DIN EN ISO 9001
 RAL - GZ 719
 DIN 18800-7 Klasse D
 EN ISO 3834-2
 SCC Contractor Safety Management System

Products

Fabric expansion joints
 Single-layer metallic expansion joints
 Multi-layer metallic expansion joints
 PTFE expansion joints
 Flourelastomer expansion joints
 Stainless steel flexible hoses

Extract from customer base

Hitachi Power Europe	ALSTOM Boiler Deutschland	Nem Power Systems	Gebze Electric Üretim
Dürr Systems	NEM Energy	Yamashita International	Thyssen Krupp Steel
Eisenmann Anlagenbau	ALSTOM Power Systems	Hitachi Zosen Inova	IHI Corporation
Vattenfall Europe Generation	RWE Power	CPL Power HK	Florida Power & Light
Andritz Energy & Environment	Friatec	Balcke-Dürr	Nooter Eriksen



Development of the DEKOMTE company

The large scale systems necessary for the desulphurization of sulphurous flue gas from power stations created a highly demanding challenge in respect to environmental conservation and in the form of expansion joints of extraordinary size and quality. This future orientated demand offered for sighted enterprising experts auspicious opportunity to offer newly developed expansion joints and to take on the responsibility of their manufacture.

In 1978 these circumstances led to the foundation of the enterprise DEKOMTE, building on a family tradition in technology; the trade name de Temple being known in professional circles since 1919 for its reliable steam engine regulators.

In order to meet the exacting demands of customers a continual progression of development and manifold learning process was to make possible by degrees the inclusion of every type of expansion joint in our order list. The current challenge lies mainly within the optimization of the membrane flexible expansion joints. A joint challenge together with manufacturers and operators of gas and steam turbine plants.

DEKOMTE confronts this challenge with a motivated team of successful expansion joint specialists along with modern devices such as computer supported organization and calculation, CAD- and FEM-Systems.

DEKOMTE is capable of rational and efficient production. Installation is carried out by experienced fitters.

DEKOMTE as expert in expansion joints and as a partner to customers

Expansion joints incorporated between system components provide low tension thermal expansion compensation. Further areas of utilisation include sound absorption muffling and vibration damping, fire prevention and adjustment of assembly inaccuracies and varying settling patterns of fundaments.



DEKOMTE supplies expansion joints for every demand

High Performance expansion joints for:

- Nuclear Technology
- Exhaust expansion joints for GT plants
- Special Systems
- Pyrolysis Systems

Specific expansion joints utilization for:

- FGD- and DeNO_x-Systems
- Power and Environmental Technology
- Steelworks
- Petrol Chemistry
- Lacquering Plants
- Chemical Plant
- Refuse and Special Refuse Incinerator Systems
- Fire Protection

Standard expansion joints for:

- Refrigerating and Air Conditioning Systems
- Food Manufacturing Plants
- Ventilator Construction
- Ventilation Technology
- General Systems Construction
- Standard Piping and Canal Systems

How DEKOMTE operates

DEKOMTE supplies series produced expansion joints as well as single products and specialises in the solving of problems.

DEKOMTE has successfully solved manifold expansion joint problems for largely varying systems, including expansion joints of the largest dimensions and meeting highest demands. Thereby once again entering new technological territory.

DEKOMTE has played a notable role in the development of expansion joint technology and disposes over national and international rights.



DEKOMTE products are in accordance with construction type and material constantly brought up to date with the relevant regulations and newest technical standards.

DEKOMTE is in the position to supply and assemble expansion joints world-wide and in accordance with all respective regulations.

DEKOMTE analyses in special cases together with the customer the technical and economical pre-requisites involved in the purchase and optimal choice of expansion joints and draws up an estimate based on these facts.

DEKOMTE takes on the engineering task of providing optimal expansion joint components independent of the purchase of a DEKOMTE product.

DEKOMTE carries out thermovisions-analysis during testing and operation thereby making maintenance and revision foreseeable. This can lead to an increased availability of the installation.

DEKOMTE quality and production

DEKOMTE own superior production facilities making scheduled production easier and has the certification DIN EN ISO 9001 (German Institute for Standardisation).

DEKOMTE expansion joints bear the RAL - stamp of quality for fabric expansion joints.

DEKOMTE is registered by Lloyds of Germany.

DEKOMTE is in command of the required testing apparatus for compensators during development and in operation including tightness.

DEKOMTE processes all suitable metals and non-metals for expansion joints in particular synthetic materials and is in command of the necessary bonding methods, especially welding and adhesion.

DEKOMTE undertakes on special request the production of steel flanges appertaining to expansion joints and also assemblage and maintenance of expansion joints.



Documentation of DEKOMTE-products

On request customers may receive a complete documentation of the consigned expansion joints. This document can in special cases include FEM calculations and thermovisions analysis and can be supplied in the form of electronic data.

Essential details regarding the development of DEKOMTE-expansion joints are described in technical literature.

DEKOMTE offers free of charge a large range of individual brochures, worksheets and guide lines to those addressing inquiries.

Customer close

DEKOMTE works on an international basis, is equipped for the European home market and has DEKOMTE firms in several countries.

DEKOMTE offers a widely spread field of service and expert consultants with direct connections to DEKOMTE central offices.

DEKOMTE instructs affiliates of customer firms in regards to appropriate acquisition of compensators and how to deal with them on their premises or on those of the customer.

DEKOMTE places its special knowledge at the customers service thus eliminating the need for further expansion joint specialists.

Business policies

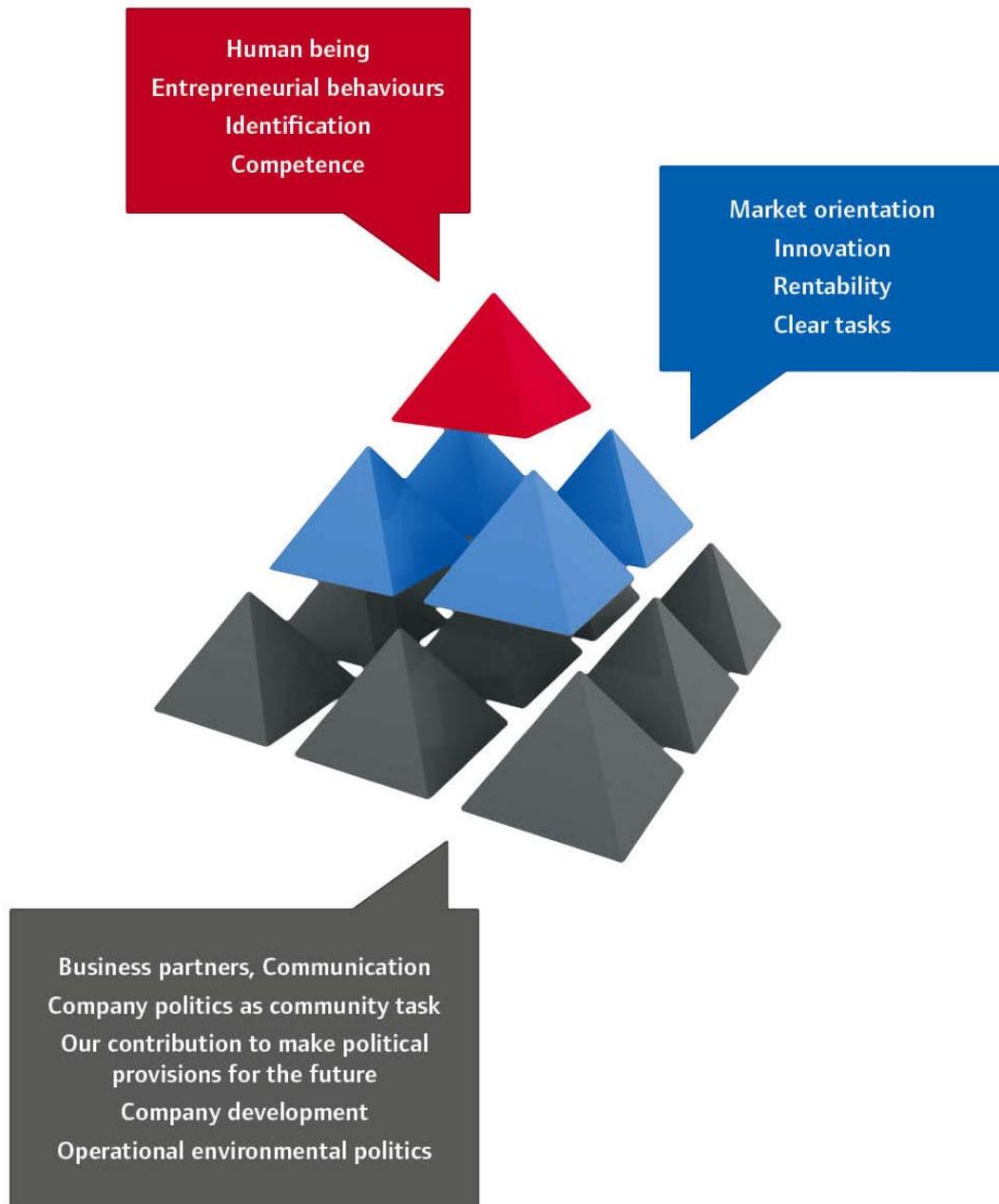
Quality and reliability of DEKOMTE products are a part of the family tradition.

DEKOMTE is renowned for punctual delivery and fast, effective assistance in special cases concerning expansion joints including those from other manufacturers. Repair work is then carried out or replacement expansion joints of improved design are temporarily supplied.

DEKOMTE constantly endeavours to supply expansion joints in a fair manner based on trust and loyalty.

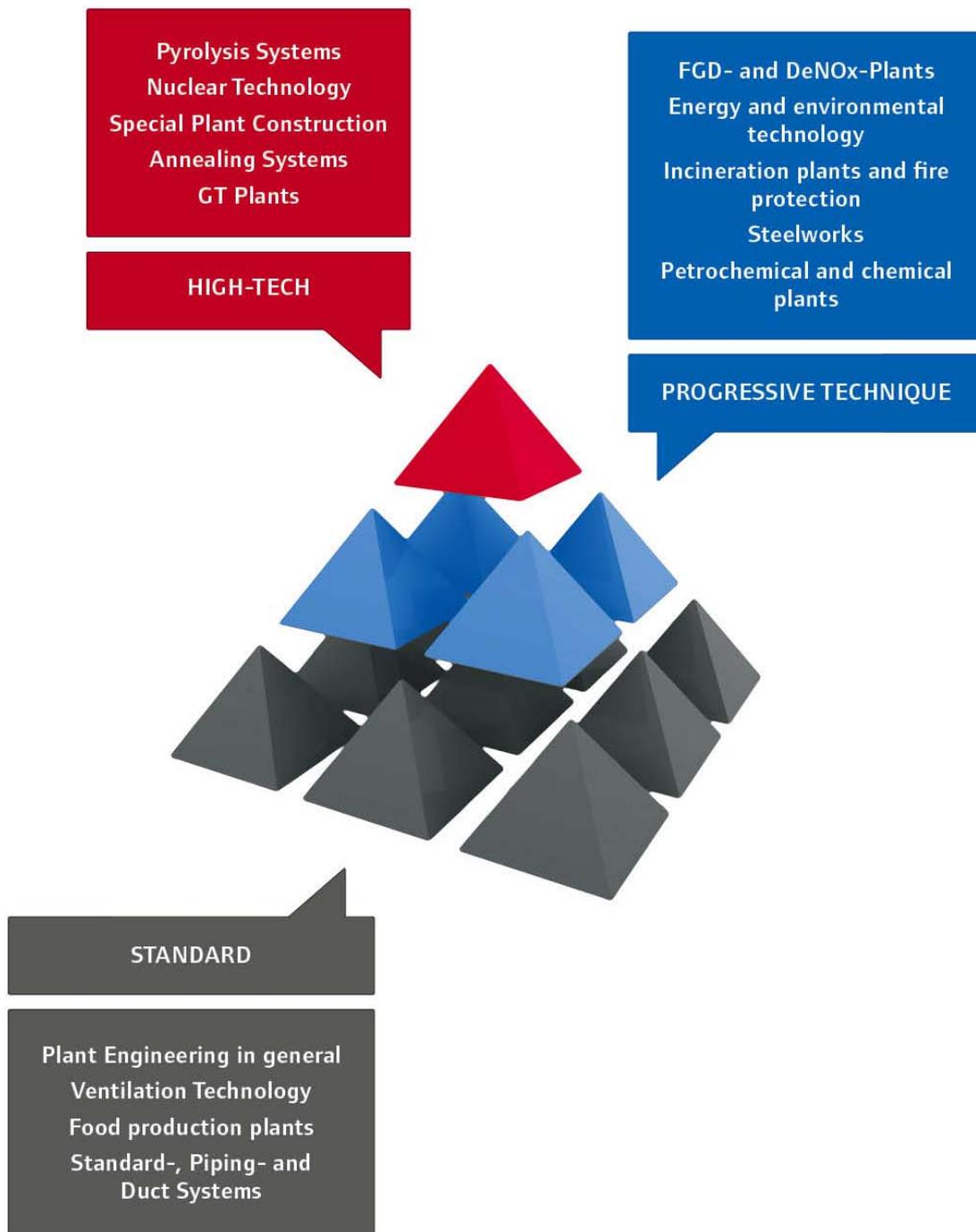


Value Pyramid





Quality Pyramid



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CERTIFICATE



CERTIFICATE

**The Quality Association for Fabric Expansion Joints
in cooperation with the
TÜV SÜD Industrie Service GmbH
confirms herewith**

**DEKOMTE de Temple
Kompensator-Technik GmbH
Walinusstrasse 13
63500 Seligenstadt**

the authorization to use the



Quality Mark RAL-GZ 719

The Company fulfils the RAL quality requirements
since 1993. The Certificate is valid until

31 December 2016

Quality Association for Fabric Expansion Joints

Management

Dr. Volker Schmid

Constanze Gillé