



**BOILER POWER PLANT
EXPANSION JOINTS**

The background of the lower half of the page is a dark, atmospheric photograph of a power plant at night. Several large, cylindrical cooling towers are visible, with some lights glowing from within. The sky is dark, and there are some faint light trails or reflections in the air.

Boiler Power Plant Expansion Joints

DEKOMTE de Temple manufactures fabric and stainless steel expansion joints for all applications within a conventional fossil fuel fired steam cycle power station.

EXPANSION JOINT

Expansion Joints are used in the following locations of plant:

Fabric Joints

- BOFA - Boost over fired air ducts
- FGD-Flue gas desulphurisation
- Main boiler ducting
- Boiler penetrations and duct connections
- Ventilation ducts

Metal Joints

- Steam piping and penetrations
- Oil connections
- High pressure pipework

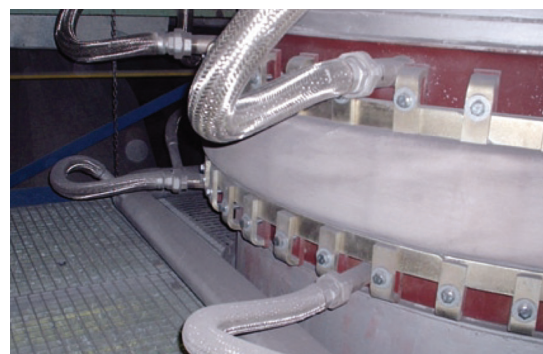
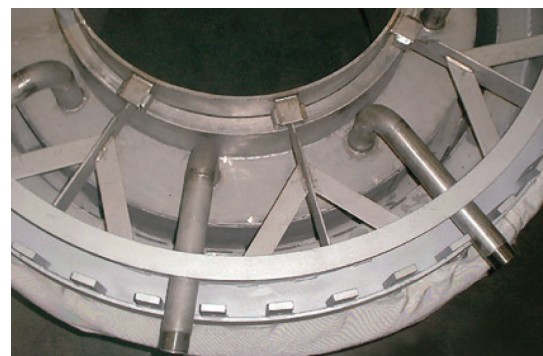
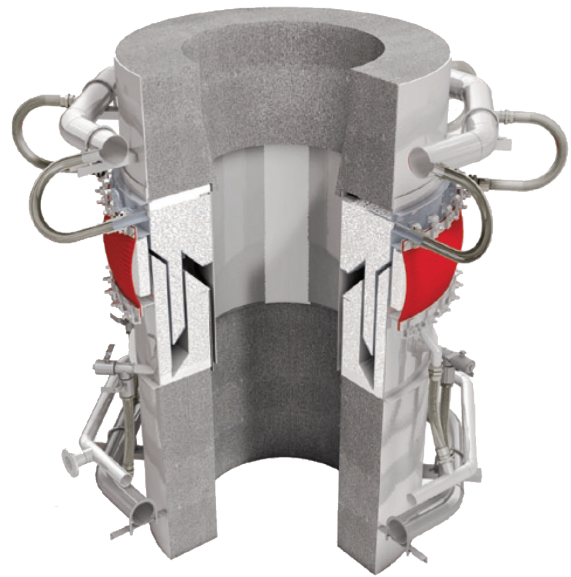
DEKOMTE de Temple is able to offer varying technical standards to suit the technical requirements/ maintenance cycle and budget for each location of joint.

The large scale systems necessary for desuphurisation of flue gases have created highly demanding technical and environmental requirements for expansion joints. The large sizes and consistent quality require a competent supply partner like DEKOMTE.

SEALED FOR LOW DUST INGRESS

High dust concentration in coal fired duct systems requires an innovative solution to stop the dust ingressing into the expansion joint.

The critical problem is temperature variance and gradients. Dust on the steel parts can cause flash and cool spots, leading to shortening the life of the joint. By using site utility air, a sealing cushion of air can be created at the internal edge of the joint, eliminating any dust ingress and maximising life.



Boiler Power Plant Expansion Joints

SPECIALISING IN EXPANSION JOINTS

Expansion joints connect systems and components to 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 materials.

DEKOMTE has designed expansion joints for numerous technically demanding environments, from extreme temperatures of above 900 °C, to below 50 °C. Large movements and tight installation areas, pose interesting challenges.

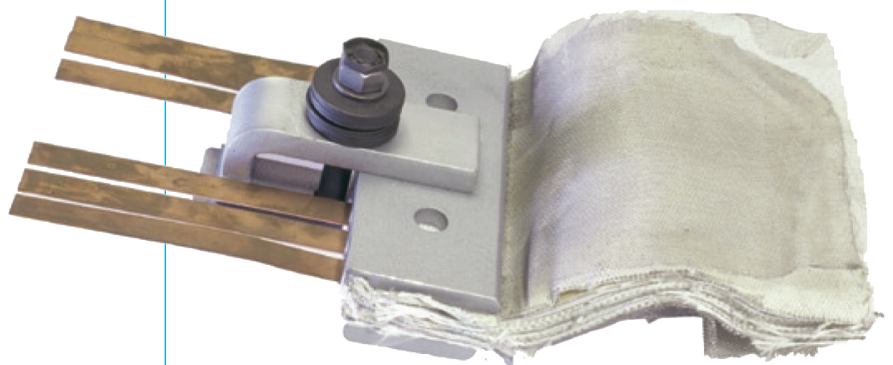
Technical innovative design and economical standard solutions to a high quality

STANDARD EXPANSION JOINTS

DEKOMTE has worked to standardise materials and design requirements for various geometries, to present some economical stock-holding options.

Utilising high quality materials and manufacturing techniques to offer standard, medium and low temperature joints.

- Technical know-how for complex problem solving
- Short or long term technical solutions according
- to customer value analysis
- Stock of materials for quick turn-around and on site support
- Service engineers available for retrofit or maintenance
- Retrofit kits and optimised stock holding advice
- Competitive standards with the highest reliability and quality





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