

Supply of complete exhaust gas system for gasturbine power station at Bielefeld

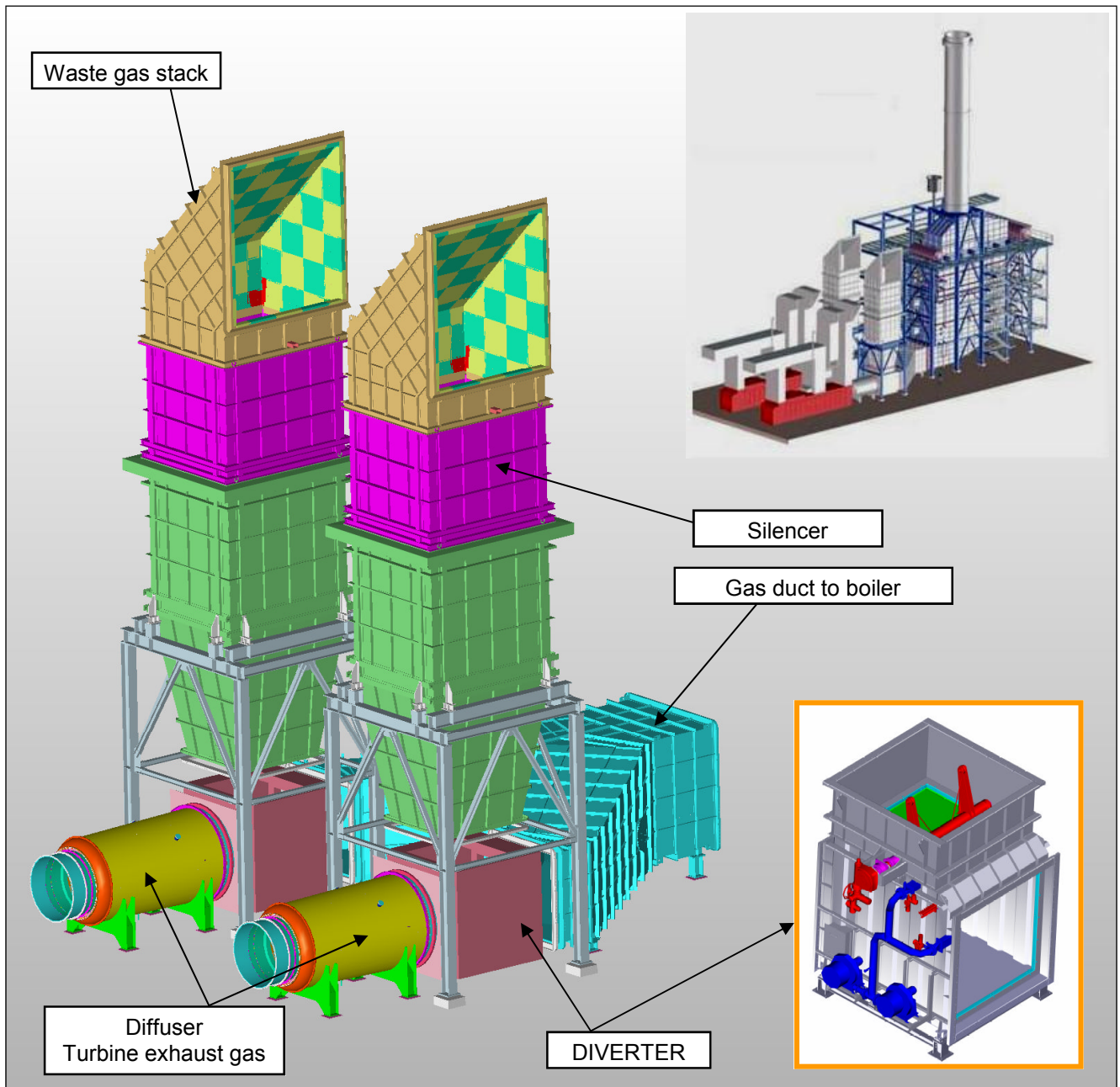
Mai 2004

RAUMAG - JANICH Systemtechnik GmbH

RAUMAG – JANICH supplied two complete exhaust gas systems for the gasturbine power station at Bielefeld, each comprising : diverter, diffuser ,waste gas stack with silencer, stack support structure ,stack hood, compensators and gas ducts to the common waste heat recovery boiler. The whole system is provided with internal insulation.

The core components, i.e. the two diverters are equipped with blades of the lattice structure reinforced type as well as the NICROFLEX – HIPERFORM sealing systems, both of which are patented, recent developments of RAUMAG – JANICH.

The exhaust gas of the two SOLAR, type TITAN 130 gasturbines may be individually or commonly routed to their respective waste gas stacks or to the common steam generator.



The patented, lattice structure reinforced damper blade design.

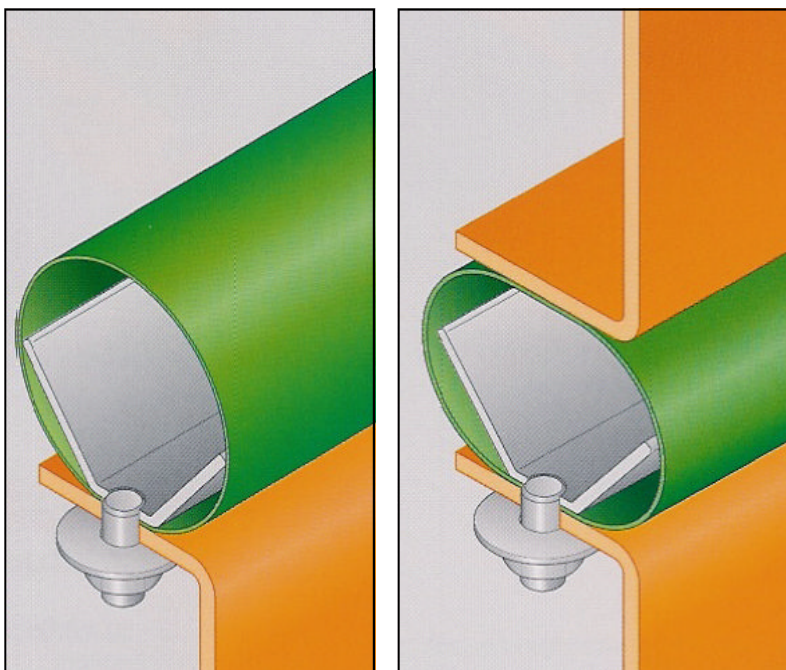


The lattice structure reinforced blade with cardanically attached, free floating cover plates remains free of distortions when exposed to high and rapidly changing temperatures. High temperature gas flows continuously through the blade's latticed support structure, all parts of which heat up uniformly.

The design of the lattice structure is based upon the "finite element" method.

In this context please refer to our publication "**TECHNOLOGY 6**"

The patented, high resilience NICROFLEX – HIPERFORM seal.



The illustrations depict the new NICROFLEX – HIPERFORM sealing system in the open (uncompressed) and in closed (compressed) condition.

In uncompressed condition the vee-shaped internal stabilizer supports the tubular seal on the inside thereby providing the necessary rigidity against vibrations. Thus damage of the seal is avoided irrespective of the damper operating mode.

The sealing system is notable for its high resilience by which it is able to compensate for misalignments or fabrication tolerances of even the largest dampers.

In this context please refer to our publication "**TECHNOLOGY 4**".

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