

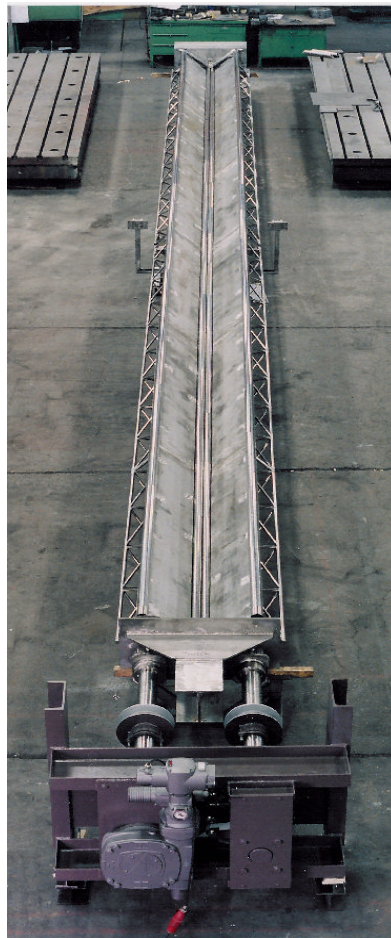
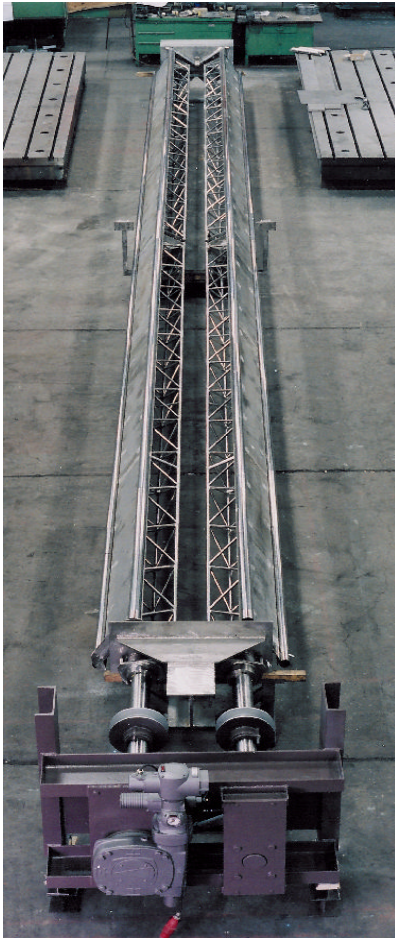
BYPASS – MODULATION and SHUT – OFF SYSTEM, DBP, ND 600 x 17500 mm for the combined cycle powerstation at Bitterfeld

October 2000

RAUMAG-JANICH Systemtechnik GmbH

RAUMAG – JANICH obtained an order from **ALSTOM POWER BOILER**, Stuttgart, for an isolation and gas modulation speciality damper, installed in the integrated bypass duct of the waste heat recovery boiler, of the combined cycle power station at Bitterfeld.

The extreme blade span was only made possible by application of the new, patented, lattice supported blade design. The blades are made up of 17500 mm long latticed girders upon which the diaphragm plates are attached. In open position, high temperature gas can flow nearly unrestricted through the lattice support grid, and therefore, causes only minimal cross blade pressure drop.



The operating temperature may rise up to 700 degrees C. However, since all the members of the lattice support structure are evenly swept by the hot flue gases they heat up uniformly and thereby any distortions are averted.

Seals of the **NICROFLEX – HIPERFORM, DBPa**, type were selected which, due to their high resilience, guarantee a high tightness even under these difficult service conditions.

The absolute stability of the seals when exposed to high gas velocities facilitates operations in the modulating mode over the full range without damage due to vibrations or turbulence.

Picture on the left : damper blades in closed position.

Picture on the right : damper blades in open position.

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