

# Lift of boiler modules, Didcot 'B' Power Station, England

**Client:** National Power.

**Main Contractor:** Siemens Plc.

**Boiler Contractor:** Rolls Royce ICL.



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During the construction of the new Didcot 'B' Power Station in Oxfordshire, Fagioli PSC were awarded the contract to lift the boiler modules, sidewalls and steam drums that form part of the new boiler structures.

In a separate contract Fagioli PSC carried out the 'chain' lifting of two chimney liners over a six month period. Each section was 6m in height with the final height of each liner reaching 92m and weighing 120 tonnes.

The main element of the heavy lift contracts, however, was the installation of the vertical boiler modules. Each module, weighing between 50 and 100 tonnes, was delivered by trailer and transferred onto a 'strongback' frame for stability and stiffness during the lifting process. On positioning of the module and frame, quick connections to the lift system were achieved with the use of a specially designed adaptor plate between the two module lift points and the Fagioli PSC L100 fixed anchor housings, which in turn were connected by 40m cables to the two L100 jacks mounted at the top of the boiler house structure. The tailing arrangement of the 'strongback' involved a simple Hilman roller setup.

The combination of the design of the 'strongback', connection system, tailing arrangement, portability of the two L100 jacks and their mounting beams, and the central positioning of the L4/15D power pack meant that up to three modules per day could be lifted into final position.

**Above:** a module in its 'strongback', half way through a lift.

**Below:** a module is delivered by trailer before transfer onto the 'strongback'.



**Above:** An adaptor plate with a pin connection to the blue L100 fixed anchor housing.

**Below:** L4/15D power pack and two L100 jacks on their mounting beams.

