



Case Study

Stacker and Shiploader at the Port Kembla Coal Terminal

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The Port Kembla Coal Terminal stockyard consists of two stacking conveyors on the outside of the piles and initially one, and in the future two reclaim conveyors between the piles. Each stacking conveyor has two rail-mounted stackers. The ship loading system is interruption free. It utilizes two ship loaders fed from a single dock conveyor. Stackers and ship loaders are to be supplied from Italmimpianti s.p.a., Genoa, Italy and Italmimpianti of Australia Pty. Ltd., Sydney. Details of the general operation of these machines are given in the paper by P. Soros in this issue (bulk solids handling No. 4 (1981)).

The machines were designed to stack out coal at the rate of 4,400 t/h according to the specific gravity of the material, which may vary between 0.750 to 0.900 kg/m³.

The stacker consists of the following main components:

- Luffing boom, hydraulically activated,.
- three leg gantry,.
- truck with all stacker wheels driven and all tripper and trailer wheels idle.

All stackers are equipped with a trailer and transfer tower to allow stacking with Stacker No. 1 stacking out with Stacker No. 2 by moving the tripper by means of a

rack unit by-passing both machines.