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Ref ef1040

SHIP UNLOADER

Year:	1989
Peak handling capacity:	1300 tons/h
Normal handling capacity:	1000 tons/h
Handling material:	coal
Grain size:	maximum 63 mm
Bulk density:	0.8 t/m3
Ship Size:	2500-5000 DWT
Electrical equipment:	415V / 50 cps
Date of last operation:	1999
Date of last maintenance:	1999

Maintenance requirements:

a. Replacement of hydraulic pipes
b. Long travel brakes sized
c. Potential conveyor replacement and bucked guides freed up
d. Upgrade of controls (optional)

Weight:	200 tons
Spares:	Substantial amount available
Drawings:	included

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Front View

The Ship-Unloader is designed to continuously unload seagoing vessels from 2,500 up to 5,000 DWT. The machine operates on the seaward side of the jetty and has to be anchored in parking position at the end of the jetty when not operating.

The peak unloading capacity is 1,300 t/h, the average capacity is 1,000 t/h of coal with a bulk density of 0.8t/m^3.

The Ship-Unloader, which has a runway length of 107m, conveys the material out of the ship's holds by means of buckets approx. 26m vertically upwards to discharge it into a ring chute from where it slides down on to the mobile boom belt conveyor.

Through this mobile boom belt conveyor, the central transfer chute and the portal belt conveyor, the material is conveyed to the jetty belt conveyor C1A.

To reclaim any remaining material from the ship's bottom, provision is made to use a front loader, which is lowered into the ship's hold, suspended from a special attachment to the Unloader.

The unloading bucket elevator is equipped with a ball-race slewing rim and thus capable of slewing through 2 x 180°.

The lowest unloading position is at - 15°, the highest at + 22°, so that a working range covering an angle of 37° is available. The boom can be lifted up to + 50°.
The boom slewing gear is slewing through each +/- 90°. Thus it has a total slewing range of 180°.