



## PRODUCT FOCUS: TUKAN K 3000



Minimized energy consumption is based on a purely electric operation with the associated high energy-efficiency advantages. The jib system geometry provides a balanced system with anti-friction bearings fitted to the pivot points. Energy losses from the movement of dead loads, which occur in the jib system of single jib cranes and the trolley of ship unloaders, are avoided. Energy recovery units are installed on all ArdelT cranes as standard. Further, an energy measurement system and a weighing device are installed. The cranes are equipped with a mechanical dust protection (protection walls with U-profiles on the edge). An additional dust protection provision is planned for a later installation. To prevent unusual wear the hopper, as well as all transfer points, are covered by HARDOX 400 steel plates.

### WHAT THE DESIGNER SAYS

'The Kangaroo Crane is a clear alternative to conventional ship unloaders. The crane is lighter in construction which therefore has less of an impact on the civil structure, and the lower investment cost has an implication on the commercial viability of any project.'

### CONTACT INFORMATION

ARDELT  
HEEGERMÜHLER STRASSE 64  
16225 EBERSWALDE/GERMANY

SALES@ARDELT.DE

### THE CUSTOMER

Rhenus Midgard GmbH & Co. KG. is a member of the global logistics provider Rhenus AG, with over 350 locations worldwide. Beside others, the company operates in the port of Wilhelmshaven, Germany's only deep water port. At its Wilhelmshaven operation Rhenus is responsible for the high-performance unloading of coal, supplied via 230,000 DWT Capesize carriers.

### THE TASK

The logistics provider needed to be able to supply coal quickly and efficiently to two nearby power stations. Rhenus had to comply with stringent environmental requirements in order to obtain an operational certificate for the discharge and supply process. In addition optimized energy consumption connected with the request to achieve the lowest possible operational costs were paramount when considering their choice of equipment. After investigation Rhenus decided that two cranes would be required for unloading the cape size coal carriers. The cranes were to be able to handle 1,750 t of coal per hour (free digging), supplying, via integrated hopper and a belt conveyor system, the material on to the quay.

### THE CRANE

Rhenus ordered two TUKAN K 3000 rail-mounted double jib level luffing cranes with 4-rope grab hoisting gear and integrated hopper positioned to the front of the crane. It is envisaged that the installed equipment will more than meet their project expectations.

### CRANE SPECIFICATION

HOISTING CAPACITY	MAX. 63 T
OUTREACH	MAX. 55 M
TRACK GAUGE	27 M
HANDLING PERFORMANCE	APPROX. 2,400 T/H

