

# : lifting



Cutter suction dredger, Artemis

## The technology

bondura® pivot pins are being installed on newbuilds and as retrofit with crane manufacturer's worldwide. Cranes with bondura® pivot pins installed ranging in size Ø100mm to and above Ø360 mm are in operation worldwide, the bondura® pivot pin technology enhances the total quality of the crane, ease the manufacturing process, installation and maintenance, not to mention the increase life-cycle.

Using spherical bearings in pivot pin connections, the inner ring of the bearing must have a press fit tolerance to achieve the right function (so that the bearing rotates correctly between the inner and outer ring). The solution in this situation would be our bondura® dual 6.6.

*«We are very pleased with the bondura® pins and our experience with the pins is very good. We are continually replacing cylindrical pins with bondura® pins as this give us less maintenance and nonproduction time. Down time caused by pin failures and extensive play have been reduced to a minimum on equipment equipped with bondura® pins.»*

*At the end it is all about production time and lowering the cost for operation. bondura® pins is one factor that has reduced our maintenance cost.»*

by Geir Johnny Eide  
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## Certification

bondura® is a patented product as well as «Type Approved» by DNV GL. The product has been classified as «Proven Technology» within the drilling-, lifting- and industrybusiness since 1994. bondura® technology AS is certified according to ISO 9001:2008.



# Time saving

Using bondura® pins reduces the risk of downtime as a result of acute repairs, or during planned servicing and certification of equipment.

When new equipment has been supplied, there will often be a certain amount of service and product improvements that fall within the warranty period. This may also apply to pin play, or that pins must be removed in order to disassemble the equipment. With bondura® pin play is avoided and labour costs and time are saved during disassembly.

Large spherical bearing create major challenges in connection with installing the necessary tight fits. Petrojarl Varg FSOP replaced pins with bondura® pins in the turret to absorb play and prevent bearing damage in these high-load positions.

Typical references :

Pipehandling systems

Motion Compensation

Cranes

Mooring systems

A-frames

Anchorhandling

Launch & Recovery

Pipelay systems

Dredging



Crane on boat, MacGregor

