



Aker Solutions modular derrick drilling machine; MH MDDM 1000 AC™

Photo: Erik Ruud

## Oil and gas

Bondura® is an established system that simplifies design work by achieving a uniform bolt design, thus avoiding the need to employ varying bolt solutions, as well as complicated housing and securing components.

When new equipment is being manufactured, supports can be made with coarse hole tolerances. This will reduce cost and simplify the manufacturing process. The tapered ends of the Bondura® bolt make it easier to assemble the joint connections without destroying the high grade bearing surface. When the bolt is in place, the expanding cone sleeves are assembled and the Bondura® is tightened until

there is zero tolerance between the bolt and the support.

With Bondura®, equipment requiring precision and manoeuvrability will achieve a solid, supportive bolt connection, thus preventing the development of play. The Bondura® bolt will enhance the quality of equipment, as well as reduce assembly time and lower overall cost.



### Certification

Bondura® is a patented product as well as «Type Approved» by Det Norske Veritas. The product has been classified as «Proven Technology» within the offshore-, construction- and industry-business since 1994.



# No play

Heavy loads and bolt impact will lead to ovality and wear and tear in the supports. This results in joints with play, damaged equipment and problems with maneuverability. The play will accelerate quickly once it has first occurred and it is a time-consuming and costly to repair it. The supports may need to be changed and new hubs welded on, followed by line drilling.

The Bondura® bolt eliminates play and ovality, ensuring a solid grip, without the need to repair the supports, with subsequent line drilling. Re-tightening prevents the development of further play. The risk of cracks forming in the support is reduced and working life of the equipment is extended significantly.



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