

OTC 2011: Improved Surface Technologies for Large Hydraulic Cylinders

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Large hydraulic cylinders are used in many offshore applications, like riser tensioning, heave compensation, skidding, deck mating and jacking. The piston rod surface of these engineer-to-order products is one of the most essential parts of the hydraulic installation. The right combination of surface technology, seal concept and hydraulic medium define the eventual uptime and Total Cost of Ownership. Therefore, it has been the main driver for innovation over many decades; Bosch Rexroth being one of the pioneers and trend setters offering various in-house solutions for every industry and application.

With Enduroq as new brand name for all of in-house surface technologies, Rexroth introduces an integrated concept for selecting, engineering and producing the best surface technology in any industry or application. As part of this concept, Rexroth introduces Enduroq 3200, a dual layer, Ultimet based high-duty surface technology. This technology is especially developed for offshore splash zones (e.g. direct riser tensioners) and meets the highest standard in the industry.

This standard developed has been developed by DNV in the Joint Industry Project in which Bosch Rexroth has played a prominent role. With more than 50 years of experience and service data feedback from the largest installed cylinder base in the world, combined with an extensive research program and the newest production technologies, Rexroth sets new engineering and production standards for surface technologies in large hydraulic cylinders.

Enduroq 3200 is an extension of the already existing in-house technologies for piston rods of large hydraulic cylinders. These solutions include the existing Enduroq 3000, a single layer Ultimet based surface technology, and Enduroq 2000 and Enduroq 2200, both based on the proven HVOF technologies.

Bosch Rexroth AG is one of the world's leading specialists in the field of drive and control technologies. Under the brand name of Rexroth the company supplies more than 500,000 customers with tailored solutions for driving, controlling and moving. Bosch Rexroth is a partner for industrial applications and factory automation, mobile applications and renewable energy.

As The Drive & Control Company, Bosch Rexroth develops, produces and sells components and systems in more than 80 countries. In 2009 Bosch Rexroth, part of the Bosch Group, achieved sales of around \$5.7 billion (4.1 billion Euro) with 34,200 employees.

For more information please visit: www.boschrexroth-us.com .

For more information, please contact

Bosch Rexroth Corporation

Kevin Gingerich
816 East Third Street
Buchanan, MI 49107
Telephone (269) 695-0151
Fax (704) 583-7294
kevin.gingerich@boschrexroth-us.com

Godfrey Public Relations

Todd Walter
40 North Christian Street
Lancaster, PA 17602
Telephone (717) 393-3831 ext. 133
Fax (717) 393-1403
twalter@godfrey.com