

Dredging System

MODIFIED PERIFLEX® CR SHAFT COUPLING

PROBLEM

A major manufacturer of dredging systems needed a reliable coupling solution with a small footprint for use on a new dredging vessel platform. The system features a 1200 HP diesel engine that drives a complex, custom-designed, eight-pad gearbox with primary output to a two-speed clutch that drives the system's main pump, as well as hydraulic pump pads to operate a crane and auxiliaries.

SOLUTION

After a thorough application review, the Stromag engineering team designed a hybrid Periflex CR (PCR) shaft coupling to meet the challenging dredging rig application requirements. The modified PCR coupling utilized a rubber element from a similar Stromag model PCS coupling and a bolt-on adaptor hub with a splined bore. Extensive torsional vibration analysis (TVA) work was completed on this complex multi-stream system of 9 driven components as the coupling was sized to fit within the tight space constraints of the customer's gearbox bell housing. The coupling's flexible ring effectively absorbs torsional impacts.



HIGHLIGHTS

- Unique hybrid shaft coupling design
- Highly flexible ring element absorbs torsional impacts
- Torque range:
480 to 14,800 Nm
(354 to 10,915 ft.lbs.)
- Lightweight and easy to install
- Extensive torsional vibration analysis (TVA) was completed

Regal Rexnord

Hansastraße 120
59423 Unna - Germany
+49 2303 102-0
customercare.eu@regalrexnord.com
[stromag.com](https://www.stromag.com) | [regalrexnord.com](https://www.regalrexnord.com)

The proper selection and application of products and components, including assuring that the product is safe for its intended use, are the responsibility of the customer. To view our Application Considerations, please visit <https://www.regalrexnord.com/Application-Considerations>. To view our Standard Terms and Conditions of Sale, please visit <https://www.regalrexnord.com/Terms-and-Conditions-of-Sale>.

"Regal Rexnord" is not indicative of legal entity. Refer to product purchase documentation for the applicable legal entity. Regal Rexnord and Stromag are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
© 2026 Regal Rexnord Corporation, All Rights Reserved.
MCCSS-P-8501-SG-EN-US 03/26

