

Multi-Beam Couplings

TRACTOR TRANSMISSION

PROBLEM

The CLAAS Group is one of the world's leading providers of harvesters, tractors, sowing machinery and agricultural systems. CLAAS Industrietechnik GmbH, based in Paderborn, Germany is part of the CLAAS Group that focuses on drive technology including gearboxes and hydraulics.

CLAAS Industrietechnik needed a coupling solution for use in the transmission for its newest range of ARION 500/600 series tractors. Having identified a contamination issue caused by the 'as-machined' delivery condition of many manufacturers' standard couplings, CLAAS approached Huco for a specialised solution which would perform reliably.

The function of the coupling is to transmit rotation from the electric positioning motor to the hydrostatic module within the power-split transmission. The coupling has to provide elastic transfer of the forces and, because it's operating in a hydraulic system, it needed to be contaminant-free.

SOLUTION

Engineers at Huco were immediately able to recommend its multi-beam couplings to perform as required within the gearbox. The coupling's helical-cut design provides a higher torque capability and reduced backlash when compared to single beam couplings and will readily accommodate axial motion and angular & parallel misalignment.

Huco was able to offer its stainless steel multi-beam coupling complete with a full deburring and cleaning service. As a result, there were no issues with swarf or metal chips contaminating the hydraulic system.



HIGHLIGHTS

- 6-Beam, double flex, non-relieved couplings
- Helical cut design provides high torque capability & reduced backlash
- Accommodates axial motion, and angular & parallel misalignment
- 303 Stainless steel construction
- Contaminant-free, fully deburred and cleaned

Regal Rexnord

[regalrexnord.com](https://www.regalrexnord.com) | [huco.com](https://www.huco.com)
+44 01992 501900
customercare.eu@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 Huco are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

© 2018, 2025 Regal Rexnord Corporation, All Rights Reserved. MCCSS-P-8059-HD-EN-US 08/25

**HUCO™**