

KHE Clutch

FORAGE HARVESTERS

PROBLEM

A major agricultural equipment manufacturer contacted several industrial clutch manufacturers for an economical clutch needed on its self-propelled forage harvesters. The clutch engages and disengages the vehicle's cutting head at engine speed. Installed on a belt drive, the clutch is positioned on a PTO shaft extending from the gearbox.

SOLUTION

In response to the OEM's request, Stromag™ engineers developed the KHE clutch, a more simplified version of its popular KHM model. The KHE series features fewer moving parts but provides the same level of exceptional long-life performance of previous models. The new clutch is also much more integrated within the belt drive pulley.

Ultimately, the OEM chose to work with Stromag based on their familiarity with Stromag and Stromag's strong record of problem solving, on-time delivery and prompt technical support with the OEM.

Stromag engineers worked closely with the OEM during extensive testing to fine tune the clutch design. Since the clutch is placed within the pulley, special attention was given to ensure that the large amount of dust generated during harvesting operations was able to be expelled to the outside of the clutch.

Two different dry hydraulic KHE models with sinter pads were developed. A single friction disc model features a max. torque of 4100 Nm. A larger model utilizes two friction discs with a max. torque of 8200 Nm. Torque ratings are based on an operating pressure of 28 bar.

The OEM is very pleased with the performance of the new clutch design along with a cost savings of approximately 20%.

Regal Rexnord

Contact us: +49 2303 102-0

[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.

© 2018, 2025 Regal Rexnord Corporation, All Rights Reserved.

MCCSS-P-8712-SG-EN-US 11/25



HIGHLIGHTS

- Economical dry hydraulic clutch design
- 8200 Nm max. torque
- 28 bar operating pressure
- Ideal for dusty operating environments

