



## Product

## KHE Clutch

## Application

## Forage Harvesters

## Highlights

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

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.

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%.

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