



Product

Custom Clutch

Application

Agricultural Planter

Highlights

- Custom clutch designed to fit tight envelope and weight restrictions
- Dual torque output requirement under low RPMs

A major agriculture OEM needed a reliable clutch solution for use on their planters due to an unacceptable field failure rate of their existing clutches which caused costly inconsistent over- and under-seeding. An electric clutch is positioned on each seed row drivetrain on the planter and can be engaged and disengaged, by GPS or manually, to provide precise row-by-row seed distribution control during planting.

The customer contacted Warner Electric since they had come to rely on Warner's extensive engineering expertise in the design and manufacture of clutch/brakes for the agriculture industry.

To meet the customer's requirements, a custom clutch was developed to provide two different levels of torque output under low RPMs (based on different crop seeds being planted). The units are designed to perform consistently and reliably under harsh field conditions in remote locations around the world.

To ensure proper performance, extensive validation testing, of both the clutch components and the entire assembly, was conducted on special test stands at Warner's engineering and test lab facility. Field tests were also completed at several locations around the world.

Warner Engineers collaborated with the customer's engineering team during the entire development process, from initial designs through final testing. Ultimately, the customer was very impressed with Warner's innovative solutions to the various design challenges associated with this project.

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