



ZERO-MAX®

Seeder Drives

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The Zero-Max Company is a designer and manufacturer of customized Variable Rate Seeder Drives. This product feature allows fixed or variable seeding and fertilizing rates to be accurately and consistently applied, via either a manual control or linked to a GPS positioning system with field mapping.

Functionality and short description:

The operation is based on the transmission of power from the ground wheel of the agricultural machine to the input shaft of the Seeder Drive typically by using sprocket mechanisms. An electrical clutch at the end of the input shaft can be used to ensure that shaft rotation can be interrupted, if necessary, e.g. when towing between fields. The output shaft of the Seeder Drive leads to the metering unit, e.g. metering screws and seed box. Depending on the application, two or three sprockets are often positioned on the output shaft to enable different transmission ratios. Different sprocket ratios offer versatile adjustments to different seed or fertilizer types. The application rate is determined by the control setting on the Seeder Drive, and is consistent, regardless of the travel speed of the agricultural machine.

In particular, the possibility of customer-specific modifications to application areas and fields of use made Zero-Max an experienced and recognized partner for new product developments in the field of seeding and fertilizing equipment. In cooperation with the Zero-Max product development team, customer requirements and application specifications can be defined and designed.

In the past 15 years more than 15,000 Seeder Drives have already been successfully put into operation, proving their durability and effectiveness.

The robust design is integrated into a sealed housing for protection from water, dirt, and debris, and offers maximum performance with accurate and consistent operation. Innovative product development enables excellent resistance to contamination, guarantees low-maintenance operation, and is pre-lubricated at the factory.

Zero-Max Seeder Drives have been established as a proven solution in countless field operations and long-term tests. Zero-Max Variable Rate Seed and Fertilizer Drives are the critical link between an electronic control

system and the mechanical seed distribution system. This system maintains accurate application rates, even if the traveling speed of the machine changes.



Product specifications and benefits:

- 0-300 RPM Drive input speed
- Customized modifications or designs are possible
- Infinitely adjustable ratio of up to 1:1 between input and output
- Torque up to 22.6 Nm (higher torque possible on request)
- Compact and robust product design
- Continuously adjustable application rate
- Easy installation and Operation
- Variable application rate enables high economic and efficient use of seed and fertilizer, and helps attain a maximum crop yield
- High resistance to contamination and environmental influences
- Decades of field-proven use under the most adverse conditions