



Drives for
agricultural technology

Agriculture on the move

Farmland is a scarce resource. While the population is growing unstoppably, the quantity of agriculturally usable areas remains near-constant.

Since use of renewable energies from agricultural products is increasing and taking up more and more farmland in addition to food production, agricultural production must nearly double in the next twenty years. Our drives for agricultural technology supports this progress and helps secure the future supply with agricultural goods.

KAG-drives are designed specifically for the rough areas in agriculture. The motors, usually designed for 12 V, have high degrees of protection, which makes it possible to use them outdoors easily and also allows cleaning them with high pressure water.

Special surface refinement protects the drives from aggressive media, such as fertilisers or hydraulic oil. On request, the drives can be painted to the customers CI colors and specifications.

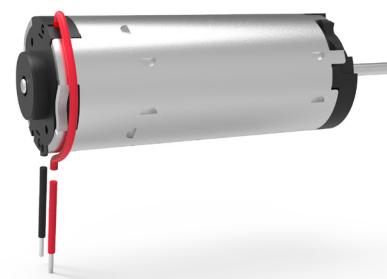
To meet the request of digitalisation in agriculture, we have dealt with decentralized, bus-capable drives early on and now offer diverse solutions for brushed and brushless motors. Our CAN-bus-capable electronic circuits can be controlled via the standardised protocols CANopen and J1939 protocol or via special protocols. Additionally, we can integrate the external measuring data and monitoring functions of the system into electronics.

Use of special cables, such as hybrid cables with robust connectors in high protection class simplify connecting enormously and are ready to face nearly any demand.

Use of state-of-the-art drives

in harvesting machines

- Very small drive with vibration resilience
- Motor-shaft on the output side with ball bearing
- Lifetime-tested



in fertiliser spreaders

- High protection class
- Gear shaft with special coating, suitable for many fertilisers
- Combined motor and encoder line in one cable
- Integrated magnetic incremental encoder



in potato planting machines

- Compact build by radial cable outlet incl. sprayed-on O-ring seal
- Closed brush-side bearing shield
- Tired and tested in field use
- Resilient KTL housing



in seeding machines

- Plug & play solution
- Special gear flange for direct mounting at the seeding unit; protection type IP65
- Integrated electronics with CAN-bus control and cost-efficient plastic cover
- Customer-specific cable with sprayed-on cable seal for electronics



in pneumatic drills

- Robust design
- Integrated magnetic incremental encoder
- Simple connection of the drive with mounted and sealed connector



in micro granulate spreaders

- Angle gear for direct assembly in application
- High protection class
- Integrated electronics can be controlled via CAN-bus



KAG motors can be found in

- Seed dosing units
- Screen adjustments of threshers
- Agitators of fertiliser spreaders
- Seed separation systems
- Potato separators in potato planting machines
- Milking robots
- Flow systems for aquacultures
- Hydraulic systems
- Lab units for quality control of grain and seed

Your benefits as KAG customer

- Easy to use on the field by high protection class and surface refinement in corporate design
- No downtimes since our drives are vibration-resilient
- Plug & play hybrid cables and connectors according to your needs
- Precise control of your processes by good controllability of our drives with customised incremental encoders
- Local control possible through integrated electronic circuits that communicate with a job computer digitally, via PWM signal or via CAN-bus



Our adjustment options



Individual adjustment of the characteristic curve of the motor



Individual mechanical attachment



Various attachment components



Individual cables



IP-protection matching your application

For 40 years, KAG has stood for demanding customised and permanently reliable drive solutions for DC motors from 2.5 Watt onwards. We are characterised by speed and flexibility, as well as by high customer orientation.

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