DC motor conveyor system for dosing machines and waste spreaders

An IP rated DC gearmotor

The challenge: To find a high-performance gear motor with encoder and IP protection with very precise speed control in an outdoor application.

The application is a DC motor to drive the lamellas of conveying systems in agricultural machines installed underneath a seed or fertiliser tank. The DC motor drives in this equipment are used in various ambient temperatures and humidity ranges. Integrated is a pressure compensation element for ventilating the motor to prevent condensation build-up inside it.

The solution offered by KAG was a brushed DC motor with optical encoder for speed control and a low-backlash planetary gearhead. This complete unit comes with IP54 protection so no further sealing is required.

The low backlash on the planetary gearhead helped obtain precise speed control and enabled precise dosing of the conveyed material. The encoder has a protection cap as well as the 1 m long encoder and motor cable.

Contact maxon motor Australia in our Sydney office for further assistance Ph:+61 2 9476 4777

Length of this press release: 220 words

The media release is available on the internet at: www.maxonmotor.com.au