

## New technologies for pump drives

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planetroll GmbH & Co. KG, premium supplier of forward-looking and extraordinary pump drive solutions consistently focuses on producing new developments. Up-to-date software solutions for speed control and torque determination are developed for mechatronics. The plarotronic electronic speed controller and paroTorque electronic torque determination ideally support the intended uses of all kinds of different types of pumps.

The plarotronic, systematically comparable with the speed control of a fully electronic drive provides the same command and communications levels as a frequency converter and is therefore also BUS-compatible, and can be used both in process control systems and as a stand-alone solution.

plaroTorque is an electronic torque determination system. This new development enables the actual torque at the pump drive shaft to be recorded. The influencing variables changing over the speed range, such as efficiencies, temperature sensitivities and voltage fluctuations are also included.

Unlike the unsatisfactory possible uses of frequency converters, there are no limits to the planetroll variable-speed gearboxes of the plaromaster series. The pump drives can be controlled up to "zero" speed, from this speed the maximum starting and breakaway torques are available. A further essential aspect for the owner/operator is that the drives cannot "slip through" at any time during the application.

Controllable pump drives from planetroll are ideally suited to use according to the European Explosion Protection Directive 94/9/EG, ATEX 95. Due to their special technical features cost-intensive and complicated external monitoring of all units are no longer required.

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Variable-speed gearbox with ATEX motor "increased safety" for Zones 1 and 21 and electrical remote control for speed adjustment