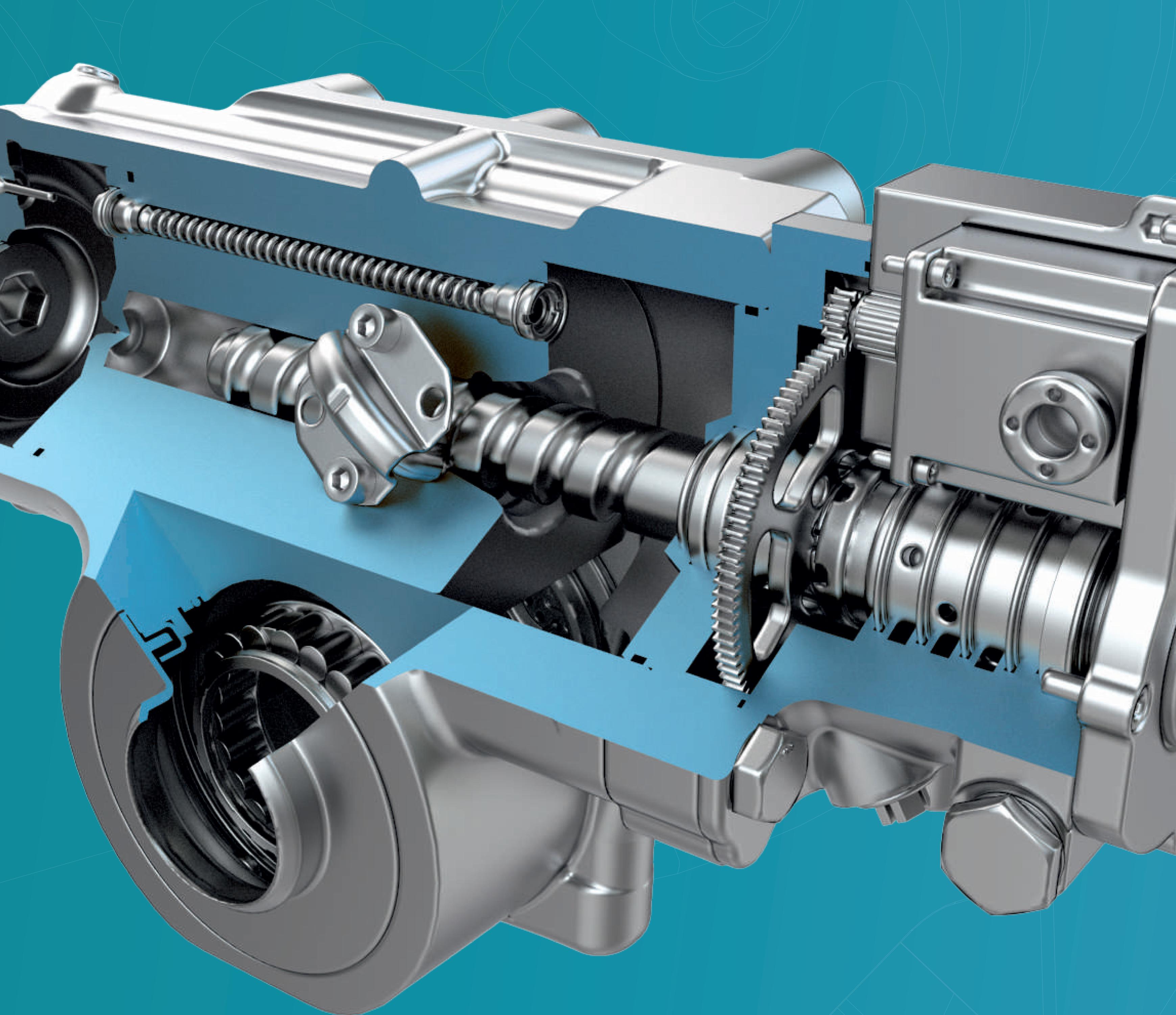


## Intelligent power steering gear C700IS

for lane keeping assistance systems of commercial vehicles



Power steering gears for commercial vehicle are based on the principle of recirculating ball type steering system in most cases because of high steering axle loads to be moved. These recirculating ball type power steering gears guarantee the driving of the vehicle with high precision, high efficiency and extremely low mechanical wear.

Among other things, the steering gear type C700 is based on this principle.

**Safety in the commercial vehicle sector is very important at European level:** From 1 November 2015, a lane departure warning system for vehicles over 3.5 tons is required by law. This should reduce the most serious accidents involving commercial vehicles. In order to ensure a future viability of the product and also to be able to respond to the requirements of the market, an additional - controlled via an integrated electric motor - gear stage in the control

valve of the steering gear is implemented, so that in case of need not only an acoustic warning of the driver when leaving the lane (above a speed range to be defined), but also an actively controlled corrective steering intervention can take place (the steering wheel moves in this case automatically in the corresponding direction of rotation). The steering gear developed here was characterized by its compactness according to our experience compared to the competition, which can certainly be decisive in critical installation situations.

Furthermore, it can be ensured that the usual known safe steering behavior is not changed. In the event of a control error or failure, the driver always retains control of the vehicle by holding and moving the steering wheel with little effort.

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