



ZF in electric counterbalanced forklift trucks – electromechanical steering system

ZF eSTEER EPS3 for electrical counterbalance lift trucks has set new standards for electromechanical steering systems.

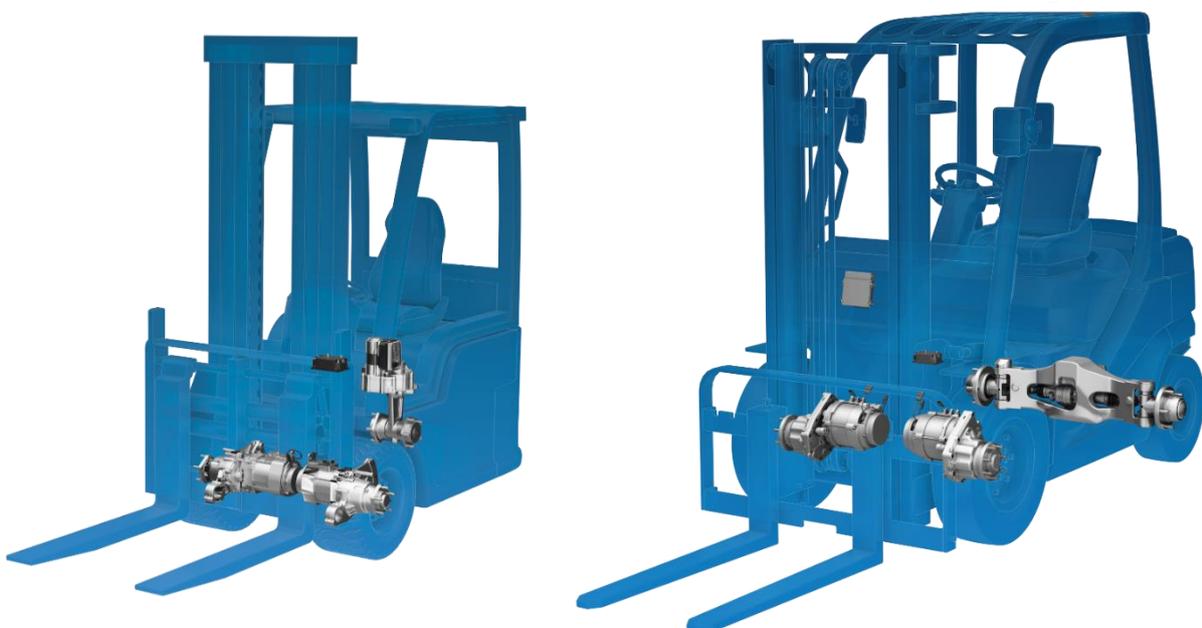
The electromechanical steering system replaces the commonly used hydrostatic steering in three-wheel front-drive counterbalance forklifts with a maximum lifting capacity of up to 2t.

This allows electric lift truck to follow the course plotted by the car industry over the last few years: the move from hydraulic steering to energy-efficient electromechanical steering.

Combined with ZF eTRAC dual-motor drives, this solution ensures highest reliability and efficiency.

eSTEER: Electromechanical power steering

- Energy saving > 10 % (power-on-demand)
- Functional safety: Performance Level D
- Steer by wire
- Excellent driving ergonomics (e.g. steering speed adjusted to actual driving situation)
- Low noise level
- Optimally protected against environmental influences
- Reduced installation effort at the forklift assembly



Product and performance classes

	EPS3
Max. output torque	1,230 Nm
Max. wheel size	15"
Max. wheel load	1,900 kg
Nom. Steering speed	90 °/sec
Max. steering angle	+/- 135°
Motor technology	Induction, 3 phase
Inverter voltage	48 Vdc
Motor power @ S3-70%	400 W
Transmission ratio	I = 176



	EPS4
EPS4 specifically developed for 4-wheel lift trucks with a lifting capacity of 2 t and 3.5 t	

