



ZF Electric Drive Solutions for Wheel Loaders

For the time being, ICE will continue to be the primary mover for Wheel Loaders. However, due to its high level of total efficiency from tank to wheel electrification will grow from compact to medium size Wheel Loaders. Guided by the principle of zero emissions, ZF strives to achieve the ambitious claim of enabling construction work machinery such as Mid-Size Wheel Loaders to drive emission-free in the future. Technology leader ZF is setting new standards for electrical drives.

eTRAC - Electric central drive solutions

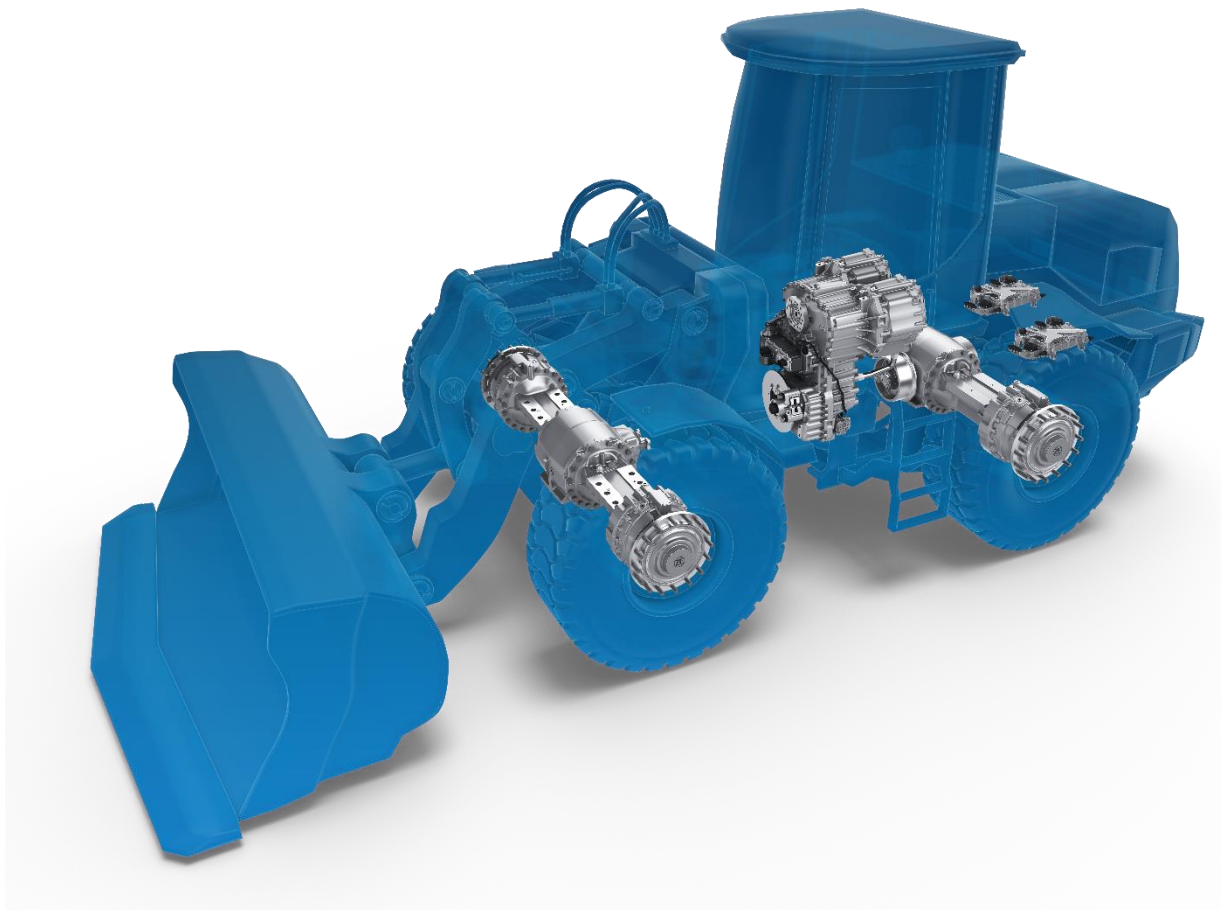
- System solution with integrated eDrive and ePTO
- Superior performance, same as conventional driveline and hydraulics
- High-efficient oil-cooled ZF eMotors with hairpin technology
- Robust and reliable mechanical driveline
- Onboard control system for eDrive and ePTO
- Transmission oil heat-exchanger included
- SiC-Inverters part of scope of supply

MULTITRAC

- High flexibility, reuse of standard axle design
- Long service life, robust design, and maximum operating smoothness
- High efficiency by preventing braking losses and optimized oil flow
- ZF-ERGOTRACTION, automatic diff-lock control



ZF eTRAC electric central drive technology for Wheel Loaders



Product and performance classes

Empty vehicle weight ¹⁾	Front axle	Rear axle	Electric Drive	Voltage	Max. Power eDrive	Max. Power ePTO
Class up to 10 t Class up to 22,100 lbs	MT-L 3065-II	MT-L 3065-II	eCD110	650 V	90 kW	105 kW
Class up to 12 t Class up to 26,500 lbs	MT-L 3075-II	MT-L 3065-II	eCD130	650 V	105 kW	105 kW
Class up to 13,5 t Class up to 29,800 lbs	MT-L 3075-II	MT-L 3075-II	eCD150	650 V	120 kW	125 kW
Class up to 16t Class up to 35,300 lbs	MT-L 3085-II	MT-L 3085-II	eCD170	650 V	135 kW	150 kW
Class up to 18t Class up to 39,700 lbs	MT-L 3095-II	MT-L 3085-II	eCD190 / eCD210	650 V	165 kW	175 kW
Class up to 20,5 t Class up to 45,200 lbs	MT-L 3105 II	MT-L 3095-II	eCD210 / eCD230	650 V	180 kW	175 kW

¹⁾ Empty vehicle weight without additional equipment