



Electric Drive Train Gearbox Introduction

Katsa has developed electric drive train gearbox solution for Electric utility vehicles and mobile equipment.

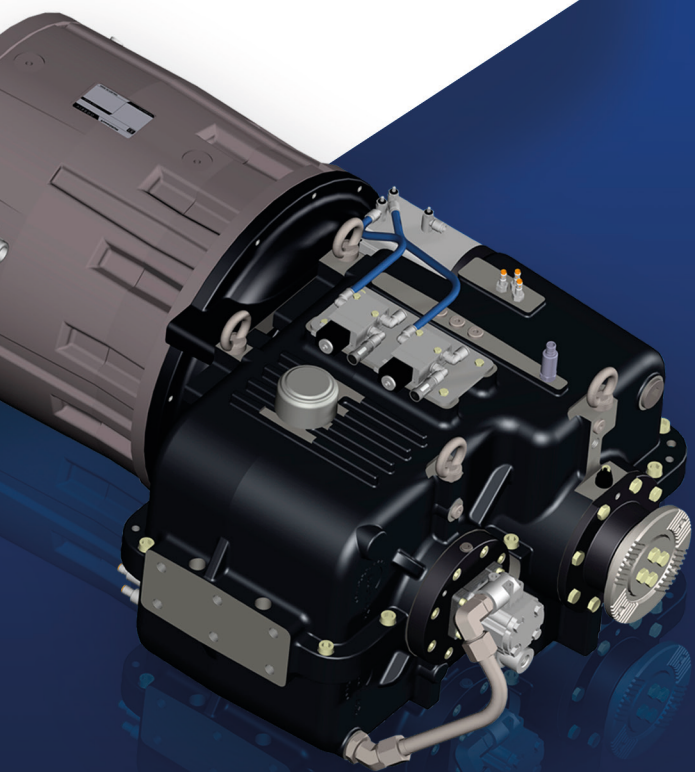
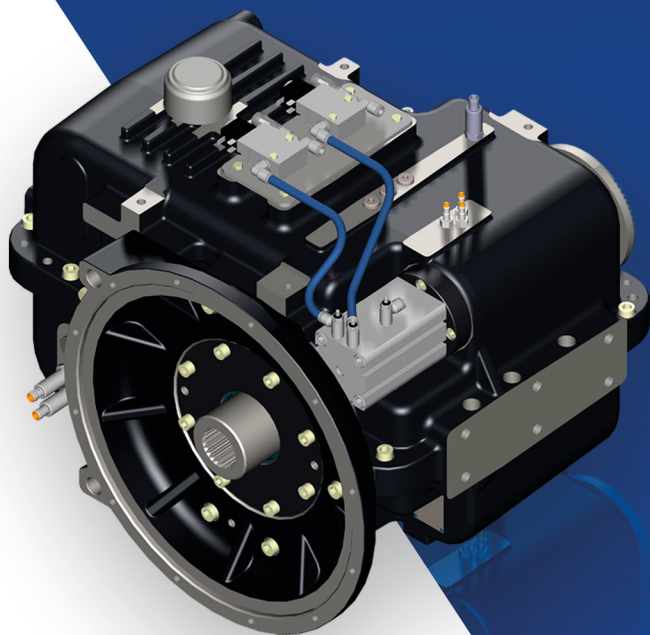
Katsa's gearbox has two ratios and speed ranges. Reduction ratio increases torque and therefore enables vehicles movement also in steep upward slopes under heavy load.

With Katsa's 2-speed gearbox the Permanent Magnet electric motor can be optimized to vehicles nominal usage and peak torques can be handled with Katsa's gearbox reduction ratio.

Katsa – Geared for You



Electric Drive Train Gearbox Technical Specifications



- Input Power max 250 kW
- Input Torque max 2040 Nm
- Input Speed max 3600 rpm
- Input connection with SAE flange, direct connection or driveshaft flange.
- Full Integration for Danfoss EM-PMI375 Series

- Output Torque:
 - With synchronizer max 5400 Nm
 - Without synchronizer max ~10 000 Nm (in development)
- Output connection driveshaft flange XS 150/180, SAE or direct connection.

2-Speeds with pneumatic or hydraulic gear shifter.

- 1st gear 3 : 1 (optionally 2 - 4 : 1)
- 2nd gear 1 : 1
- Efficiency 97%-98%
- Gear shifting in motion by PM motor speed control + synchronizer unit
- Housing material: Cast aluminium
- Pressure lubrication with integrated oil-pump
- Weight approx. 210kg without motor
- Optional Accessory:
 - Gearbox controller, Oil-cooler & filter, remote condition monitoring system

