

Large FWD BMT 6BMT425

Boosted Manual Transmission with integrated 48V e-motor based on 6MTT425. P3 hybrid configuration with electric motor driving final drive via 2-speed transfer gear set delivers CO2 savings, full boost capability and electric drive functionalities at complete speed range. Capability to start engine / charge battery at standstill.



Features and Specifications

- Max. torque (ICE / e-motor): 425 Nm / 70 Nm
- Installation length: 400 mm
- C/d crank shaft – differential: 205 mm, 215mm
- Ratio 1st gear (base unit): 13.7 - 18.8
- Gear ratio spread: 7.5 – 7.8
- Electric motor (water cooled): 48V, 25KW (70Nm)
- Inverter (water cooled): 48V, CAN
- Ratios EM to wheel: 1st: 23, 2nd: 10

Competitive advantage/differentiators

- CO2 saving of up to 20% (WLTP)
- Engine start/charge at standstill and optional auxiliary power supply
- Performance increase through full boost capability (0-100 km/h improvement of approx. 1 sec)

Applications/benefits

- Electric drive features like fully automated parking or traffic jam assist
- EV mode drive without shift up to 40km/h
- Optional low-cost automation – improved shift quality through e-torque fill
- Optional 2-pedal version @ zero oncost (deletion of clutch pedal)

SOP

