

Hybrid Dual-Clutch Transmission HDT Eco

The HDT Eco is part of the transverse product family ranging from DCT to DHD. The gear set architecture of the HDT Eco 48V mild hybrid transmission corresponds exactly to the 6-speed DCT. It is used with an e-motor of up to 25 kW in P2.5 architecture.



Features and Specifications

- Nominal torque: 230 Nm, scalable up to 300 Nm
- Center distance: 188 mm
- Installation length: 350mm
- E-motor: up to 25 kW, 70 Nm peak
- Package optimized design
- Wet nested dual-clutch
- Smart actuation and cooling
- Single shift drum
- Air and water cooling

Competitive advantage/differentiators

- Best-in-class efficiency leading to extended range and reduced operating costs
- Best-in-class torque-to-weight ratio
- Integrated system with compact design and no increase in packaging length
- Adjustable drivability by software and clutch modulation, and customizable driving modes
- Charge at standstill

Applications/benefits

- Vehicle segment A – C (FWD)
- PSM e-motor integrated in transmission housing and cooled by common oil circulatory system for wet dual clutch and gear set
- Water cooled inverter directly connected to e-motor

SOP

