

Dedicated Hybrid Drive DHD Duo

The dedicated hybrid drive DHD Duo is a two e-motor concept suitable for HEV applications, delivering outstanding performance with high drivability and comfort even when driving in congested traffic. DHD Duo is developed in a platform approach, scalable in power and in number of gears to meet B to E vehicle segment requirements. It enables a flexible architecture switch between P1 + P3, P2 + P3 and Range Extender (REEV).



Features and Specifications

- Maximum ICE torque: up to 300 Nm
e-boost up to 500 Nm
- E-motor: up to 140 kWp
up to 260 Nm peak
- Generator: up to 90 kWp
- Electric System Power P2+P3: up to 230 kWp
- Installation length: > 350 mm
- Center distance: > 197 mm

Competitive advantage/differentiators

- *Fuel consumption reduction vs. DCT:
WLTC: up to -36 %
CLTC: up to -45 %
- Very good acceleration performance due to the interaction of high-powered e-motor and a multi gear approach
- Very smooth & comfortable driving in all driving conditions supported by electric, serial and parallel driving modes
- Shifting without notice for the multi-speed architecture

Applications/benefits

- Covers B to E vehicle segment incl. SUV (FWD)
- Reuse of mature technologies & building blocks, ASIL C for e-motor and inverter
- 140 kW high e-motor peak power
- Impressive acceleration performance, comparable to a BEV

* DHD Duo w/ 1.5l 120 kW 4-Cyl. Miller Cycle Gasoline (max. eff. at 41%);
DCT w/ 35.5% engine eff.

SOP

Ideation

Discovery

Concept

Development

Serial Preparation

in Production