BORGWARNER

electric Torque Vectoring Disconnect (eTVD) 2.0

26.02.2024 – 08.03.2024

Arctic Drive Arjeplog 2024 -
Demonstrator Car Key Facts

TECHNOLOGY
electric Torque Vectoring Disconnect (eTVD) 2.0

▸ VEHICLE PLATFORM **Polestar 2**

VEHICLE SPECIFICATION
Dual Motor

Front Propulsion
- Motor Type PMSM
- Motor Power 150 kW
- Wheel Torque 3 000 Nm

Rear Propulsion
- Retrofitted eTVD 2.0
- Torque per Wheel 2 600 Nm
- Motor Type PMSM
- Motor Power 200 kW
- Wheel Torque 4 300 Nm

Battery
- Nominal Voltage 400 V
- Capacity 78 kWh

KEY FEATURES and BENEFITS
ELECTRIC TORQUE VECTORING DISCONNECT (eTVD) – DUAL CLUTCH SYSTEM
VEHICLE DYNAMICS CONTROL SOFTWARE HANDLING SLIP CONTROLLER, LONGITUDINAL AND LATERAL TORQUE
CUSTOMER INTERFACE FOR VEHICLE TUNING ON-THE-FLY

Applicable BorgWarner Portfolio

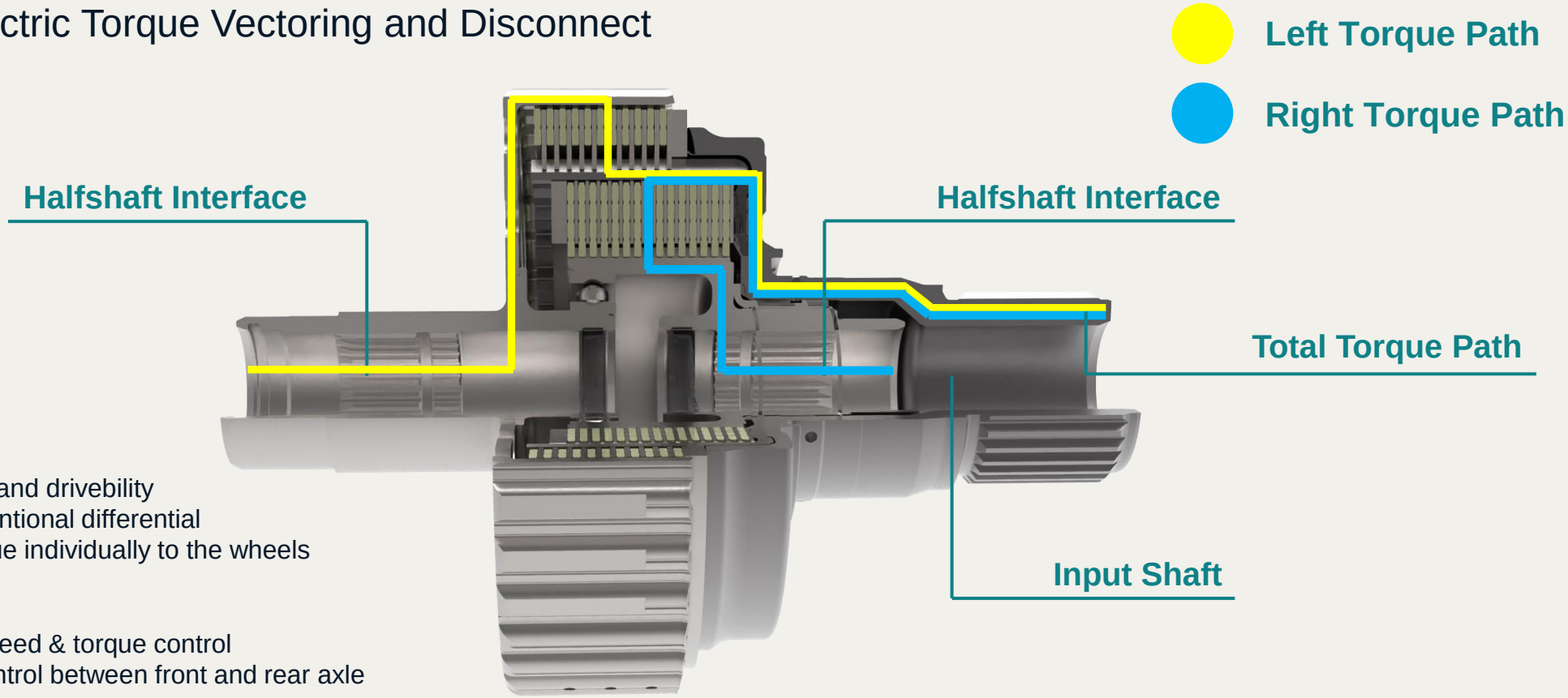
eTVD

Inverter

Vehicle Controls

System Active

- eTVD – electric Torque Vectoring and Disconnect



Torque Vectoring

- Superior safety and drivebility
- Replaces conventional differential
- Distributes torque individually to the wheels

BEV advantages

- More precise speed & torque control
- Independent control between front and rear axle

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