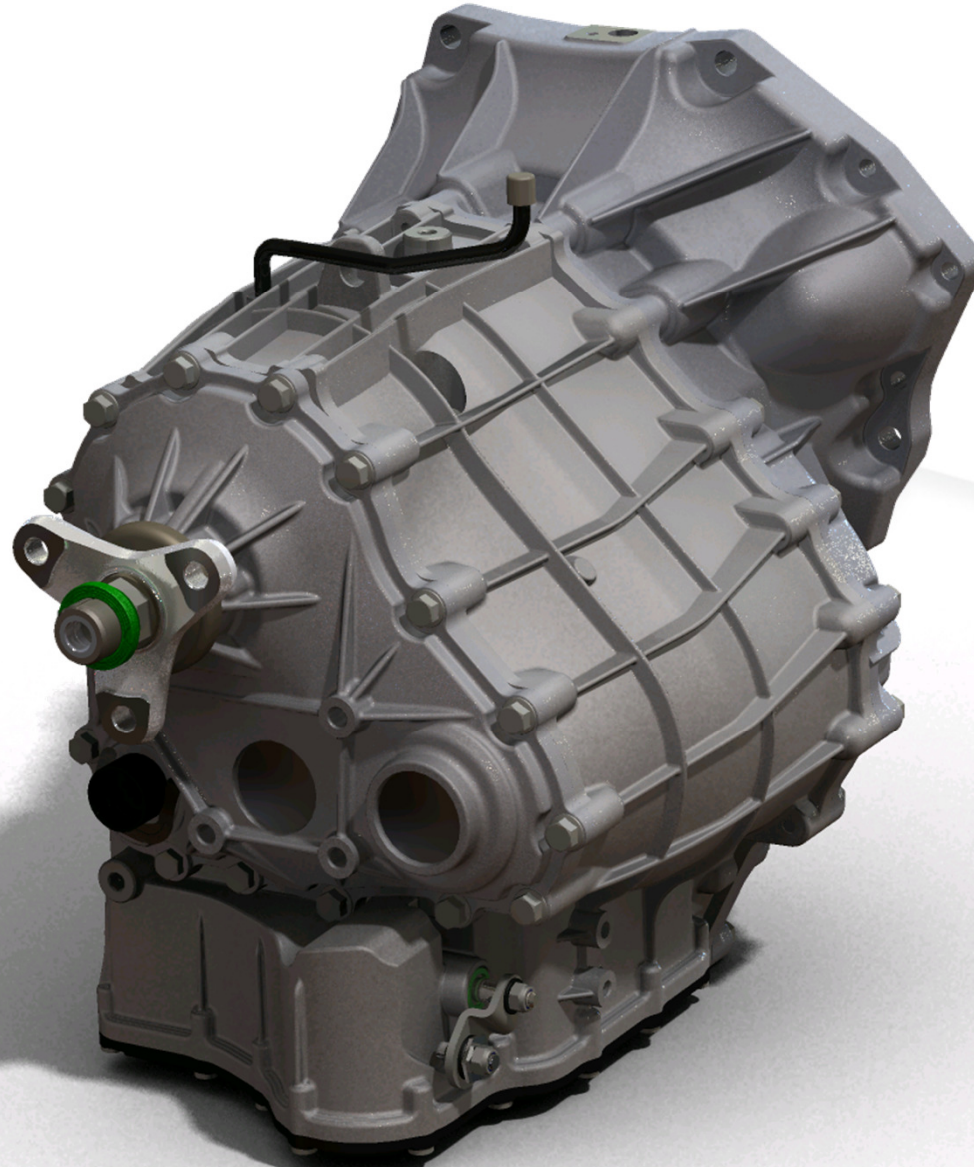


4 Wheel Drive Automatic Transmission VT4



VT4 Features

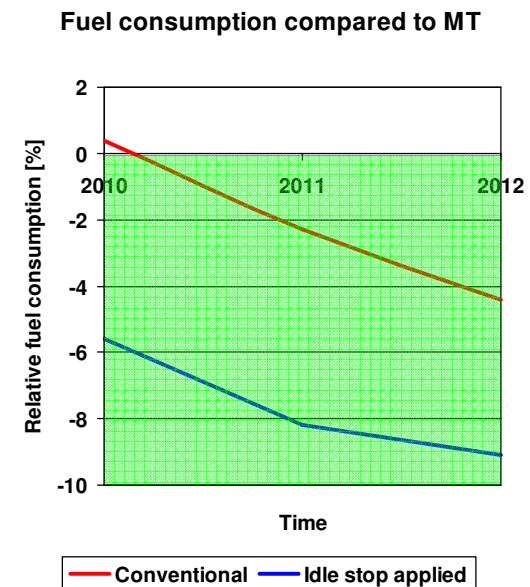
- VT2 derivative for 4WD for longitudinal engine installation
- Adaptation for RWD for longitudinal engine installation also possible
- Maximum use of VT2 and VT3 components
- Designed for VT3 torque level (220 Nm)
- Option to use torque sensor on output shaft

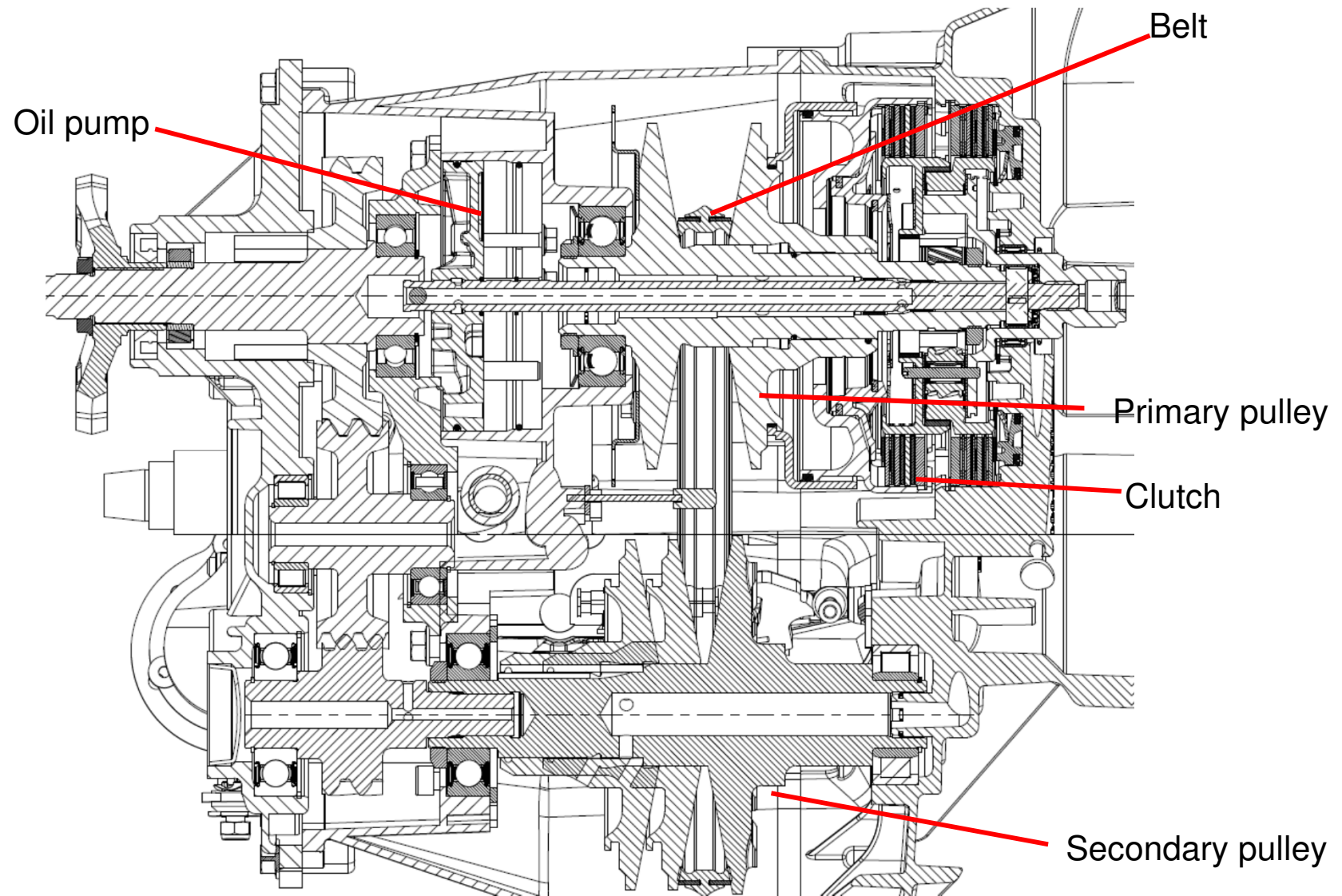
VT4 Comfort

- Perfect shift behaviour due to the belt/pulley concept
- Total flexibility in control strategies
- State-of-the-art software functions available e.g. :
 - adaptive functions for compensation of lifetime effects
 - diagnostics like OBDII
 - driving strategy features like:
 - warm-up mode after cold start
 - uphill / downhill recognition
 - tip mode / sport mode / economy mode

VT4 Fuel efficiency

- Best in class fuel economy (fully capable for Euro V, ready for Euro VI)
- Specific control features for improved fuel economy
 - Optimised clamping control
 - Minimised clutch drag at standstill
 - Clutch control
 - Idle stop functionality available
 - Warm up mode at cold start
 - Economy drive mode
- Suitable for conventional powertrains and hybrid powertrains with pancake E-motor
- Low transmission weight (highest torque to weight ratio in its class)





VT4 Technical Data Sheet

Transmission type:

Automatic transmission for passenger cars
Continuously variable longitudinal, 4WD, RWD

Oil pump:

Gear type pump V_{geo} 10.3 cc
 V_{max} not applicable

Capacity and speed range:

T_{max} = 220 Nm @ 2500 rpm
 P_{max} = 122 kW @ 5700 rpm
 N_{engine} = 800 rpm – 6000 rpm

Constant gear ratio (depending on application):

Standard 1.84
Options to be evaluated on request

Main distance:

Engine – differential = 187 mm

Differential:

Type: Internal gearing
Spline: Reference diameter 24.34 mm, 23 teeth

Clutch:

Wet plate launch clutches for Drive
Wet plate launch clutches for Reverse

Shift lever positions:

P R N D
S or L optional

Variator:

Low (minimum, theoretical) ratio: 0.443
OD (maximum theoretical) ratio: 2.416
Ratio coverage: 5.45
Center distance: 155 mm

Control unit:

Electro-hydraulic
Stand alone TCU
Adaptive driving
Diagnostics

Belt type:

VDT 24/9/1.5

Transmission weight

Dry transmission: TBD kg
Oil included: TBD kg
Delivery weight: TBD kg
Weights can vary per application

VT4 dimensions

- Total length over primary shaft to output shaft 525.8 mm *
- Total width 393.2 mm
- Total height 444.6 mm
- Output shaft in line with input shaft

* Measured from RFOB, engine design will influence this value – values are indications

