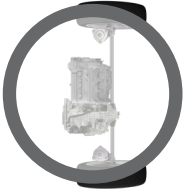


# Magna 7HDT300 48V for Alfa Romeo Tonale



# Magna 7HDT300 48V for Alfa Romeo Tonale

Front Axle



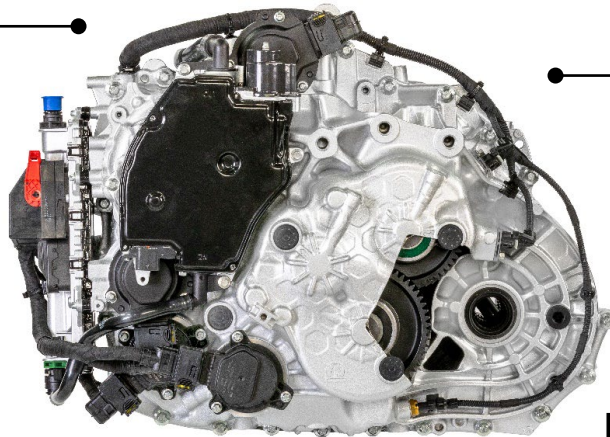
7-speed hybrid dual-clutch transmission for mild hybrids; torque-split design to enable ideal use of the efficiencies of the combustion engine and the e-motor. Ideal for B- up to D-class.

## Family concept

- Part of 300/400 family with DCT, HDT and DHD application

## eMotor

- Mild hybrid (48 V)
- Independent on demand cooling for clutch and e-motor
- Single oil circuit for cooling and lubrication
- Integrated, high-speed e-motor



## Best in Class Efficiency

- Low-drag torque due to low-viscosity fluid
- High gear mesh efficiency

## BIC Torque-to-Weight ratio

DCT-based P2.5 architecture  
High speed eMachine concept

## Magna 7HDT300

### Efficiency:

Up to 18 % CO2 savings according WLTP versus DCT

### Safety & Reliability:

Reuse of matured technologies and building blocks incl. ASIL C

### Convenience:

Adjustable Drivability by Clutch Modulation and eRock-Cycling

### Dynamics:

320 Nm ICE Torque plus  
15kW eBoost capability

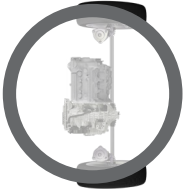
### Integration:

BIC torque-to-weight ratio (= 3,8 Nm/kg) and interchangeable flexibility

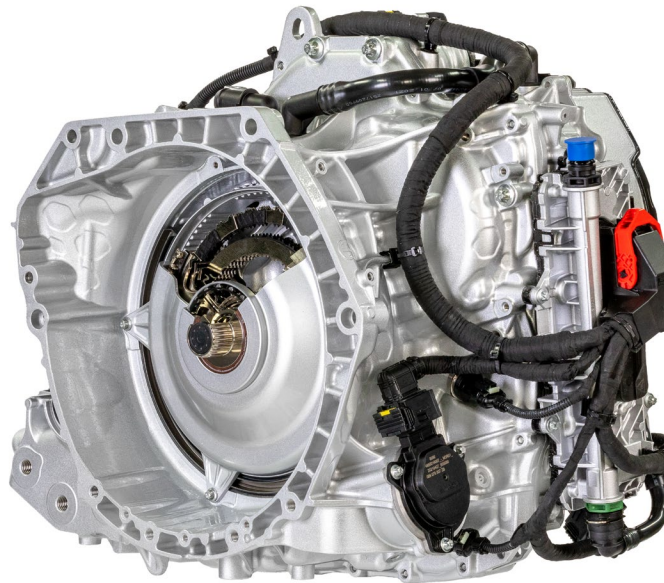
Pre-Development   Released for Acquisition   Serial Development   **Serial Production**

# Magna 7HDT300 48V for Alfa Romeo Tonale

Front Axle



7-speed hybrid dual-clutch transmission for mild hybrids; torque-split design to enable ideal use of the efficiencies of the combustion engine and the e-motor. Ideal for B- up to D-class.



- Max. torque: 320 Nm
- Installation length: 364 mm
- Center distance: 197 mm
- Ratio 1st gear: 13.7 - 18.6
- Gear ratio spread: up to 8.5

## Magna 7HDT300

### Efficiency:

Up to 18 % CO<sub>2</sub> savings according WLTP versus DCT

### Safety & Reliability:

Reuse of matured technologies and building blocks incl. ASIL C

### Convenience:

Adjustable Drivability by Clutch Modulation and eRock-Cycling

### Dynamics:

320 Nm ICE Torque plus 15 kW eBoost capability

### Integration:

BIC torque-to-weight ratio (= 3,8 Nm/kg) and interchangeable flexibility



# Magna 7HDT300 48V for Alfa Romeo Tonale

Front Axle



7-speed hybrid dual-clutch transmission for mild hybrids; torque-split design to enable ideal use of the efficiencies of the combustion engine and the e-motor. Ideal for B- up to D-class



## Features/Specifications

Alfa Romeo Tonale

Engine Type: 1.5 l.

4 cylinder turbo charged direct injection engine

Engine Power: 118 kW

Engine Torque: 240 Nm

Battery: 48V 0.8 kWh (nominal)

Magna Powertrain Technology  
7HDT300 with 15kW EM

Pre-Development

Released for Acquisition

Serial Development

Serial Production

