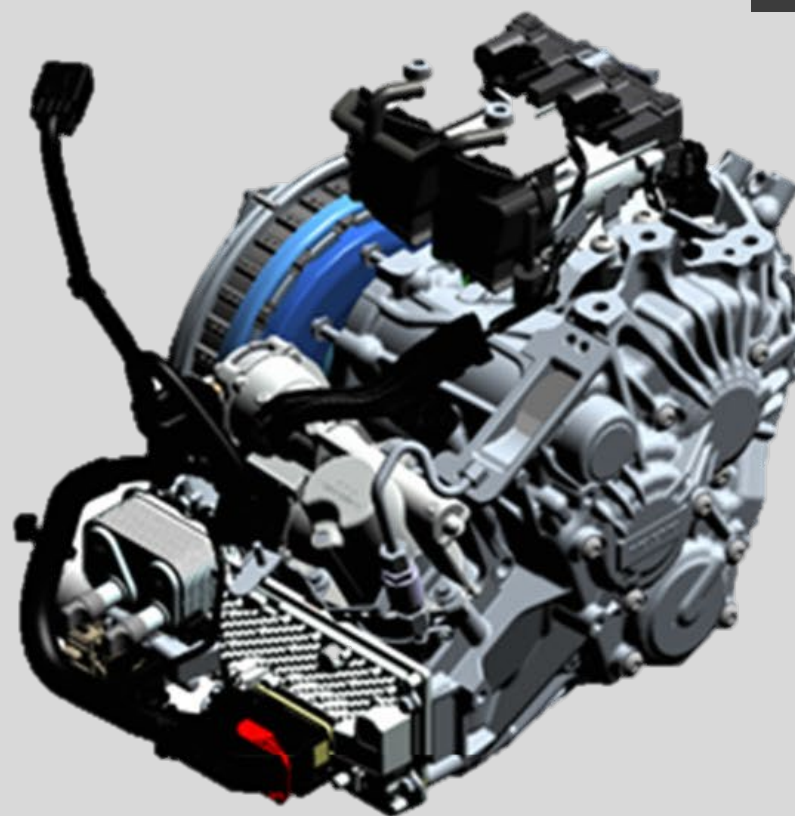


OCTOBER 5TH – 7TH, 2020
THE AACHEN COLLOQUIUM
SUSTAINABLE MOBILITY

GEELY

TRANSMISSION



Reference Project – 7-Speed Dual Clutch Transmission Platform

Courtesy of GEELY POWERTRAIN



OVERVIEW OF THE 7DCT PLATFORM MODULARITY



3 engine platforms

- 1.5 l petrol
- 1.8 l petrol
- 2.0 l petrol



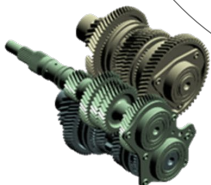
2 drivelines

- Conventional
- Hybrid



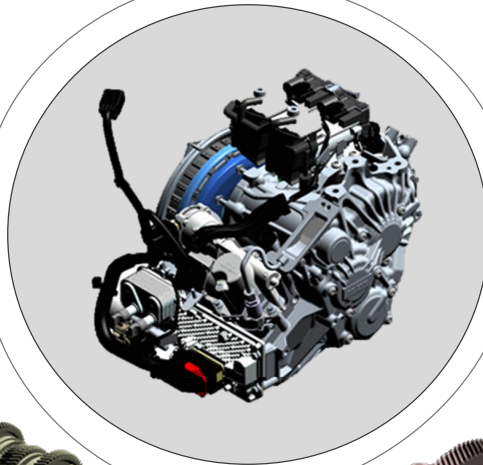
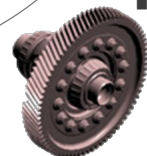
2 gear sets

- Mid
- Wide



5 final drives

- Front-wheel-drive
- All-wheel-drive

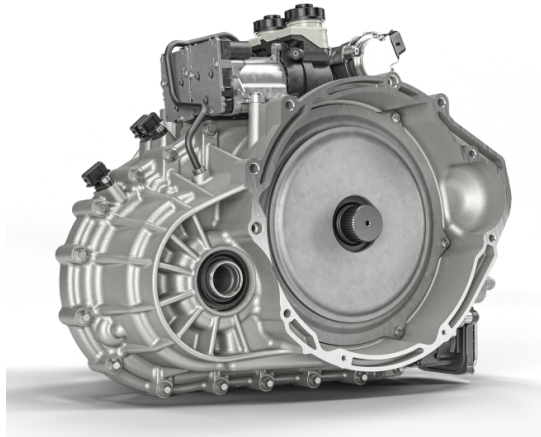


- DCT for C-vehicle to light D-vehicle segment
- For 3 and 4 cylinder engines of GEELY POWERTRAIN
- Conventional and hybrid drivelines covered
- For front-wheel-drive and all-wheel-drive
- 7-speed platform capable of 330 Nm
- Power-on-demand actuation systems
- Electric machine characteristics:
 - peak power: 65 kW (at 290 Volts)
 - continuous power: 25 kW
 - peak torque: 160 Nm
 - continuous torque: 60 Nm

FEV's involvement

- DCT concept and support of early development including first 2 prototype phases

GEELY 7DCT330



7DCT

7DCT is Geely's world-class 7-speed dual-clutch automatic transmission. Developed to set a new standard for transmissions in the industry, the 7DCT offers fast and accurate shift response along with high efficiency. With an input torque of 330Nm, it combines the advantages of manual and automatic transmissions, low fuel consumption, and uninterrupted lightning-quick 0.3 seconds response time. Coming in at 75kg, it is even setting a new standard in weight when ordinary 6-speed automatic transmissions weighs an average of 98kg. Hybrid versions of the transmission are also available. The new transmission will be fitted together with Geely's 1.5TD and 1.8TD engines.

Source: <http://global.geely.com/intec/g-power/>



Source: https://www.media.volvocars.com/image/low/190830/1_1/2



FEV`s DCT Family



FEV'S DCT FAMILY
COVERS A
WIDE RANGE OF
APPLICATIONS

7DCT350

7DCT250

Maximum carry-over content compared to 7DCT350

➔ economy-of-scale

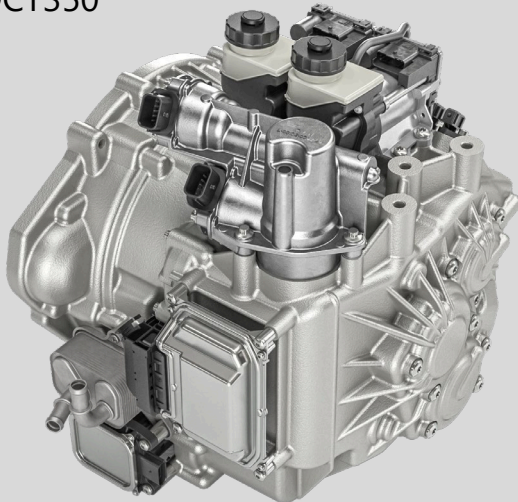
7-xDCT280

Low-cost DCT with low-complexity gearset
and shortest installation length

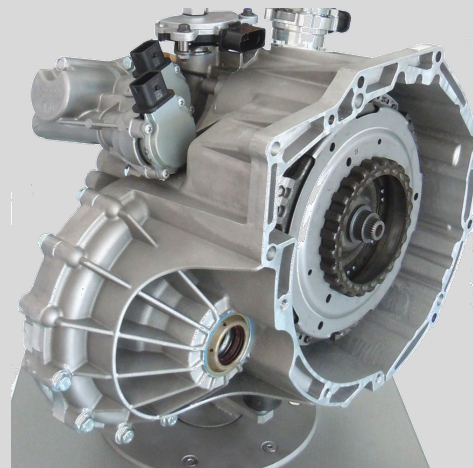
5DCT130

Low-cost entry-level DCT based on
simple 2-shaft gearset architecture

FEV 7DCT350



FEV 7-xDCT280



FEV 5DCT130

