Explore our Technologies
DualTronic™ Dual Clutch Modules
for Passenger Cars
A dual clutch transmission equipped with BorgWarner’s DualTronic™ Technology delivers fuel economy that rivals single clutch automated gearboxes and shift quality that rivals the best conventional automatic transmission... all in a package that is compact and price competitive.

How it Works
Engine output can be coupled to either of two transmission input shafts of an automated dual clutch transmission (DCT). Each clutch functions as both a launch clutch and a dynamic shifting clutch, enabling clutch-to-clutch shifts without torque interruption. The DualTronic Technology features tunable launch characteristics and scalable torque capacity in a compact, modular design.

Technical Features and Advantages
BorgWarner’s DualTronic wet-clutch technology exceeds customer expectations by providing:
- Improved fuel economy
- Reduced torque interruption
- Superior hill hold and creep performance
- Better shift feel
- Enhanced convenience
- Adaptive performance
- Improved durability and reliability

Module Characteristics
- High energy wet composite friction material
- High slip energy capacity for launches compared to dry clutch systems
- Stable friction and damping characteristic over lifetime and temperature
- Engine input speed capability >9000 rpm
- Engine torque capacities to more than 1500 Nm
- Compact package optimized for short axial or minimum radial dimension
- Integral torsional vibration damper available

For Additional BorgWarner Information:
borgwarner.com