



BorgWarner's Dual-clutch Module Improves Efficiency for ChangAn's New Transmission

- *Contributes to improved fuel efficiency and shift feel*
- *Offers excellent durability and reliability*
- *Features tunable launch characteristics and scalable torque capacity in a compact, modular design*

Auburn Hills, Michigan, March 30, 2017 – BorgWarner provides its advanced DualTronic® clutch and control module with integrated torsional vibration damper for ChangAn's first self-developed dual-clutch transmission (DCT), initially available for the EADO plug-in hybrid, EADO XT and upcoming CS85 SUV. Featuring high thermal robustness, scalable torque capacity and tunable launch characteristics in a compact and modular design, BorgWarner's state-of-the-art dual-clutch module enables shifts within fractions of a second and contributes to fuel efficiency comparable to that of a manual gearbox.

“As a leading Chinese automaker, ChangAn is one of the first domestic manufacturers to develop a dual-clutch transmission,” said Robin Kendrick, President and General Manager, BorgWarner Transmission Systems. “We are pleased to support this project and further strengthen our service to our customer by supplying our sophisticated DualTronic clutch and control module.”

By using two wet clutches to engage the even and odd gears respectively, BorgWarner's dual-clutch module allows extremely quick shifts without any noticeable interruptions of the power flow. The control module uses compact electro-hydraulic solenoid valves to precisely regulate the clutch as well as the transmission's gearshift actuation system for dynamic performance. Advanced high-energy wet friction materials with a specially developed groove design minimize spin losses, provide improved heat resistance and deliver high torque capacity and reliable operation over the transmission's lifetime. The integrated torsional vibration damper further enhances vehicle response and engine agility through its low inertia while facilitating system tuning in combination with BorgWarner's dual-clutch module.

About BorgWarner

BorgWarner Inc. (NYSE: BWA) is a global product leader in clean and efficient technology solutions for combustion, hybrid and electric vehicles. With manufacturing and technical facilities in 62 locations in 17 countries, the company employs approximately 27,000 worldwide. For more information, please visit borgwarner.com.



BorgWarner's advanced DualTronic® clutch and control module with integrated torsional vibration damper contributes to enhanced dynamic performance for numerous vehicles from ChangAn.

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