

# TREMEC TR-7007 DCT™ / TR-9007 DCT™

## 7-Speed Dual Clutch Transmission

Design, development, tooling, and testing costs can inhibit the product development of modest volume/niche segment drivetrains. However, a convergence of customer needs, economic possibilities and engineering capabilities can drive powerful solutions with a ‘viral’ adaptation.

In pursuit of such a convergence, TREMEC has developed a “Family Approach” to new drivetrain products characterized by high-torque applications in sports cars, SUVs and diesel vehicles that demand performance and refinement.

For these markets, improvements in torque capacity, NVH, fuel efficiency and mass reduction are continually engaged to meet the “Fun-2-Drive” needs of the customer.

TREMEC has unveiled this family approach with a 7-speed, 900Nm (664 lb-ft) dual clutch transmission that takes into account a modular design for RWD, AWD and transaxle platforms.

This high-torque DCT, with its performance mechatronic system, provides a multi-mode, tunable launch for high-end luxury cars and sports cars.

All systems and subsystems – including hardware and control software – are internally developed for maximum system performance. The system is optimized by unique friction material, efficient hydraulics, low-leak solenoids, plus a transmission control unit equipped with sophisticated, application-specific software.

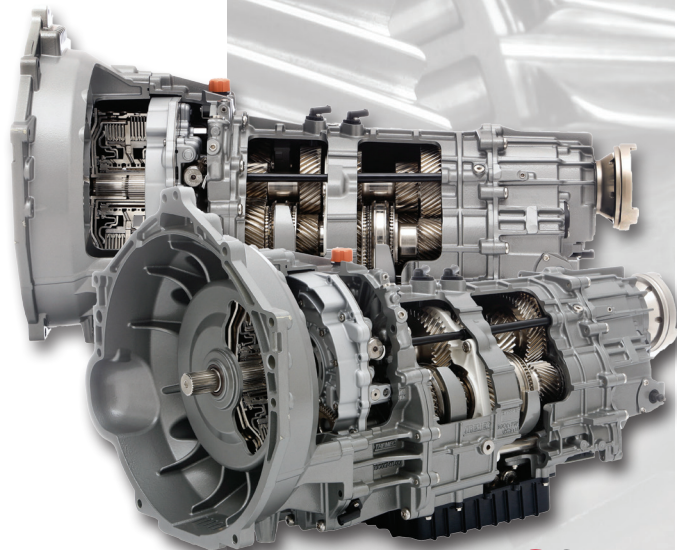
### Shared components and subsystems include:

- Highly efficient, “virtually dry” wet dual clutch
- Friction materials optimized for control and thermal capacity
- Planetary gerotor pump provides highly efficient system pressure and lubrication
- Fast and accurate low leak solenoids
- Responsive and durable electro-hydraulic actuation system
- Sophisticated transmission control unit and control software
- Fast and precise clutch control systems

### Features at a Glance:

- Seven forward speeds
- Modular design for rear-wheel drive (RWD), all-wheel drive (AWD) and trans-axle platforms
- Torque capacity of 700 Nm (516 lb-ft) or 900 Nm (664 lb-ft)
- 9,000 RPM maximum input speed
- Performance oriented gear ratio spread
- Integrated mechatronics

**TREMEC**<sup>®</sup>  
Torque Transfer Solutions<sup>®</sup>



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## 7-Speed Dual Clutch Transmission



Torque Transfer Solutions®

### TREMEC TR-7007 DCT and TR-9007 DCT Specifications

Type:	Rear-wheel drive, seven-speed dual clutch transmission		
Maximum gross vehicle weight:*	2,400 kg (5,291 lb) <i>*For reference only. Not applicable to a specific application</i>		
Case:	Die cast aluminum alloy		
Center distance:	85 mm and 90 mm		
Overall length:*	TR-7007 DCT: 746mm; TR-9007 DCT: 786 mm <i>*For reference only. Dependent on bell housing and flange requirement.</i>		
Clutch housing:	Integrated die cast aluminum alloy		
Lubricant type:	Pentosin FFL4		
Weight:	TR-7007 DCT: 85 kg (187 lb); TR-9007 DCT: 90 kg (198 lb)		
Available Gear Ratios <i>Alternative ratios available upon request; may result in different maximum input torque</i>	Gear	TR-7007 DCT	TR-9007 DCT
	1	3.63	3.14
	2	2.37	2.05
	3	1.66	1.43
	4	1.27	1.10
	5	1.00	0.86
	6	0.79	0.68
	7	0.65	0.56
	R	3.20	2.76
Input Torque	700 Nm 516 lb-ft	900 Nm 664 lb-ft	