

TREMEC TR-7007 DCT™ & TR-9007 DCT™ 7-Speed Dual Clutch Transmission

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.

The design intent is to preserve existing vehicle packaging space for multiple OEM's – contributing to the flexible approach required for modest volume/niche segment markets. The TREMEC TR-7007 DCT and TR-9007 DCT are products now in development to provide these solutions.

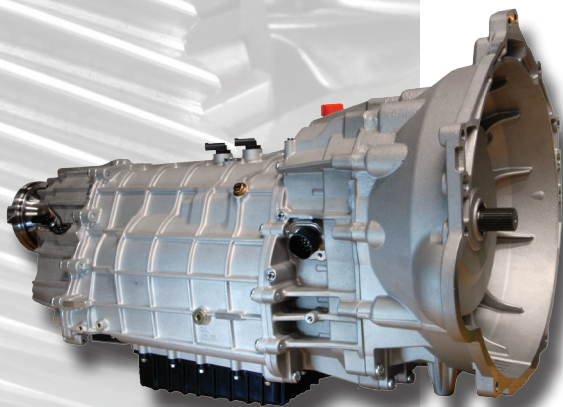
The transmissions respect the installation constraints typical for RWD applications. They are 7-speed transmissions with ratios selected so that vehicle performance and fuel efficiency targets are properly satisfied.

The use of integrated mechatronic systems allow TREMEC to leverage components and subsystems already developed and produced to optimize cost savings, reduce development resources and time, and reduce software development for common components. Shared components and subsystems include

- Highly efficient, virtually dry dual wet 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
- Fast and precise clutch control systems
- Powerful transmission control unit and control software

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





Torque Transfer Solutions™

TREMEC TR-7007 DCT™ & TR-9007 DCT™

7-Speed Dual Clutch Transmission

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
	Gear Ratio Spread	5.58	5.62
Input Torque	700 Nm 516 lb-ft	900 Nm 664 lb-ft	