

DETROIT[®] DT12[®]

ON-HIGHWAY TECHNICAL SPECS

WITH CUTTING-EDGE PERFORMANCE, IMPROVED FUEL EFFICIENCY AND EASE OF OPERATION FOR ENHANCED DRIVER COMFORT, THE DT12[®] AUTOMATED MANUAL TRANSMISSION IS PURPOSE-BUILT FOR EXCEPTIONAL RELIABILITY AND A VARIETY OF ON-HIGHWAY APPLICATIONS.

ENHANCED FEATURES INCLUDE:

BETTER FUEL EFFICIENCY FOR BIGGER FUEL SAVINGS.

A new oil pump and enhanced thermal management system utilize advanced transmission technology for better fuel economy.

OPTIMIZED GEARING.

The DT12 gear ratio has increased from 15 to 19, enabling maximum down speeding to enhance fuel efficiency and low-speed maneuverability. This ratio increase also enables higher GCW ratings.

An automated manual transmission (AMT) offers the benefits of both a manual and automatic transmission. AMTs use an efficient clutch instead of a torque converter, but the clutch and shift gears are handled by a computer-controlled air system. So even a novice driver can get to work, with minimal effort and fuel – and maximum productivity.

IMPROVED PLANETARY GEAR SET DESIGN.

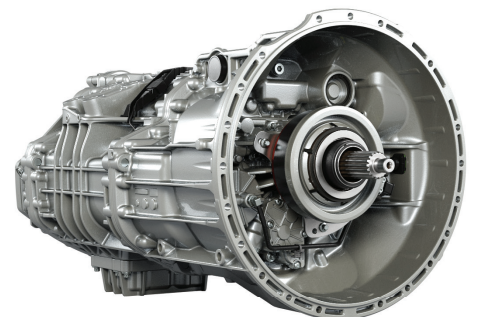
In addition to a greater gear ratio, a more robust planetary design allows for increased torque input. Higher torque limits in downspeed applications result in better startability and top gear time, improving efficiency and performance.

NEW PTO CAPABILITIES.

Beyond rear power take-offs, the DT12's bottom PTO offers increased dependability and flexibility for your truck.

ADDITIONAL DT12 FEATURES INCLUDE:

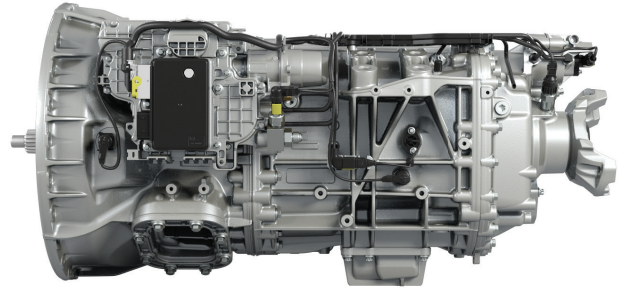
- eCoast
- Skip Shift
- Powertrain Communication
- Active Driveline Protection
- Intelligent Powertrain Management
- Optional Direct Drive



Detroit[®] DT12 On-Highway Specifications

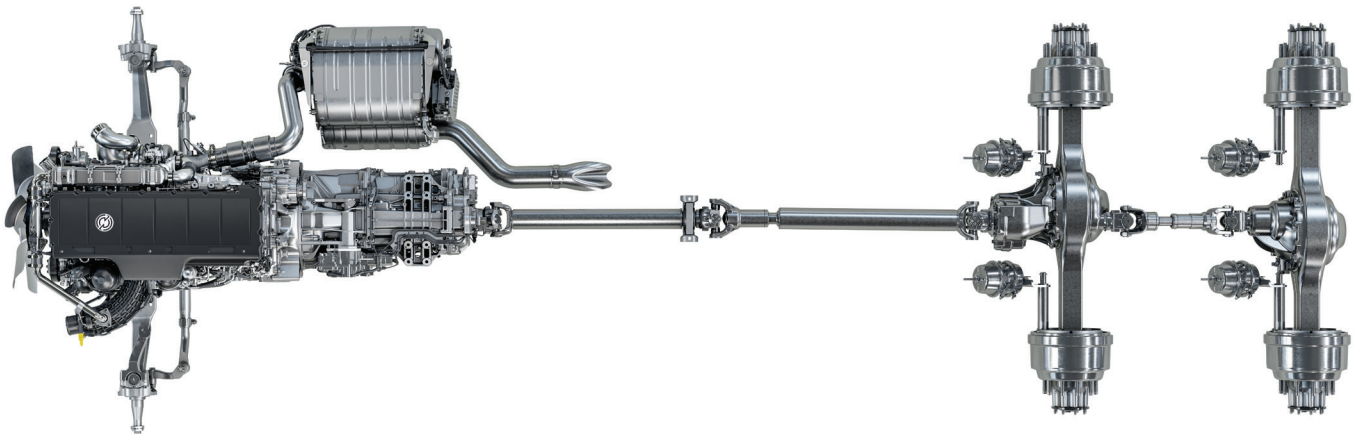
	DT12-HE	DT12-H	DT12-HL
Speeds	12 forward / 4 reverse		
Shift actuation	Pneumatic		
Clutch actuation	Pneumatic		
Max Input Torque (lb-ft)	2,250	2,050	1,650
Max GCWR (lb)	160,000	140,000	80,000
Overall Ratio	18.8	15	15
Lifetime (B10, miles)	1.2 million		
Oil change interval (miles)	80k lb or less: Up to 600,000* 80k lb or more: Up to 400,000 (maintenance system)	80k lb or less: 400,000 80k lb or more: 300,000	80k lb or less: 400,000 80k lb or more: 300,000
Weight (dry / clutch)	650lb / 112lb	646lb / 112lb	534lb / 112lb
Installation length	1199	1201	1087
PTO capability	Rear / SAE bolt bottom	Rear	Rear
Truck Model Availability	Freightliner Cascadia & 114SD Plus Western Star 57X & 49X	Freightliner Cascadia	Freightliner Cascadia & 114SD Plus Western Star 57X
Engine Compatibility	DD13 Gen 5, DD15 Gen 5, DD16	DD13 Gen 5, DD15 Gen 5	DD13 Gen 5

*Certain application restrictions apply, see DemandDetroit.com for more details.



DETROIT CONNECT VIRTUAL TECHNICIAN[®] REMOTE DIAGNOSTIC SYSTEM

If maintenance issues come up on the road, you can count on Detroit Connect Virtual Technician. With Virtual Technician, you are notified within minutes of a vehicle fault event. You will receive information on the severity of the fault and guidance including when, where and how to best fix the issue causing the event.



The DT12[®] transmission links engines to axles and communicates with the DD13[®] Gen 5 and DD15[®] Gen 5 on an integrated electronics network to share damage-reducing information such as clutch overloading and driveline protection.

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