



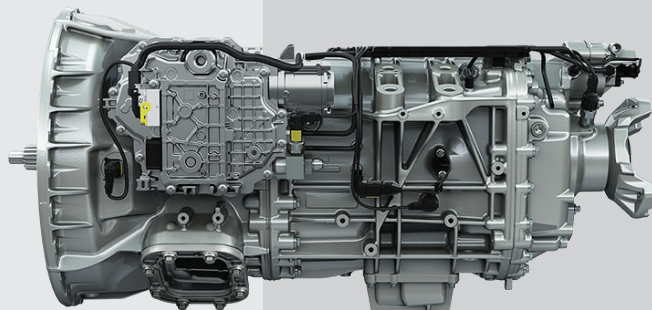
DT12[®]

ON-HIGHWAY

TECHNICAL SPECIFICATIONS

PRODUCT OVERVIEW

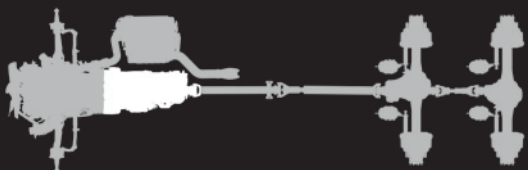
An automated manual transmission (AMT) offers the benefits of both a manual and automatic transmission. AMTs use an efficient clutch instead of a torque converter, but the clutch and shift gears are handled by a computer-controlled air system. So even a novice driver can get to work with minimal effort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



DETROIT[®] DT12 ON-HIGHWAY SPECIFICATIONS

	DT12-HE	DT12-HL
SPEEDS		
MAX INPUT TORQUE (LB-FT)	2,250	1,650
MAX GCWR (LB)	160,000	80,000
OVERALL RATIO	18.8	15
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
WEIGHT (DRY/CLUTCH)	650lb / 112lb	534lb / 112lb
PTO CAPABILITY	Rear / SAE bolt bottom	Rear
TRUCK MODEL AVAILABILITY	Freightliner Cascadia & 114SD Plus Western Star 49X	Freightliner Cascadia & 114SD Plus
ENGINE COMPATIBILITY	DD13, DD15, DD16	DD13

*Certain application restrictions apply. See DemandDetroit.com for more details.



ENHANCED FEATURES

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 downspeeding to enhance fuel efficiency and low-speed maneuverability. This ratio increase also enables higher GCW ratings.

NEW PTO CAPABILITIES.

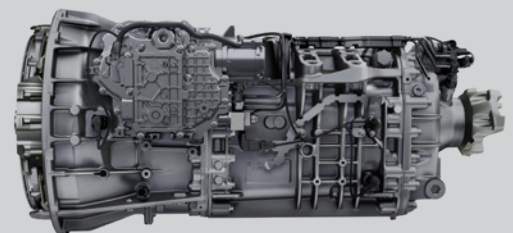
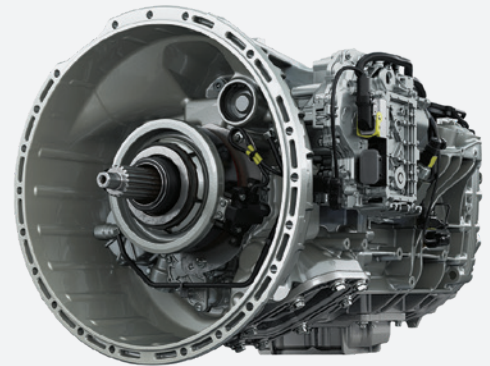
Beyond rear power take-offs, the DT12's bottom PTO offers increased dependability and flexibility for your truck.

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.

DT12 FEATURES INCLUDE

- **ECOAST**
- **SKIP SHIFT**
- **POWERTRAIN COMMUNICATION**
- **ACTIVE DRIVELINE PROTECTION**
- **INTELLIGENT POWERTRAIN MANAGEMENT**
- **OPTIONAL DIRECT DRIVE**



POWERTRAIN INTEGRATION

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

