

# DETROIT<sup>®</sup> DT12<sup>®</sup>

ON-HIGHWAY TECHNICAL SPECS

WITH CUTTING-EDGE PERFORMANCE, IMPROVED FUEL EFFICIENCY AND EASE OF OPERATION FOR ENHANCED DRIVER COMFORT, THE DT12<sup>®</sup> 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.**

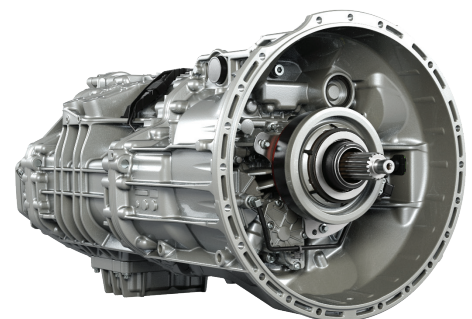
In addition to a greater gear ratio, a more robust planetary design allows for increased torque input. Higher torque limits in downspeed applications result in better startability and top gear time, improving efficiency and performance.

#### **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:**

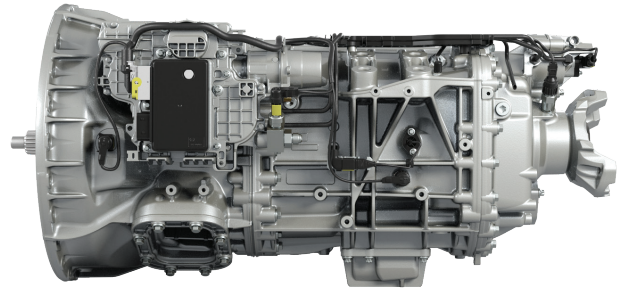
- eCoast
- Skip Shift
- Powertrain Communication
- Active Driveline Protection
- Intelligent Powertrain Management
- Optional Direct Drive



### Detroit<sup>®</sup> DT12 On-Highway Specifications

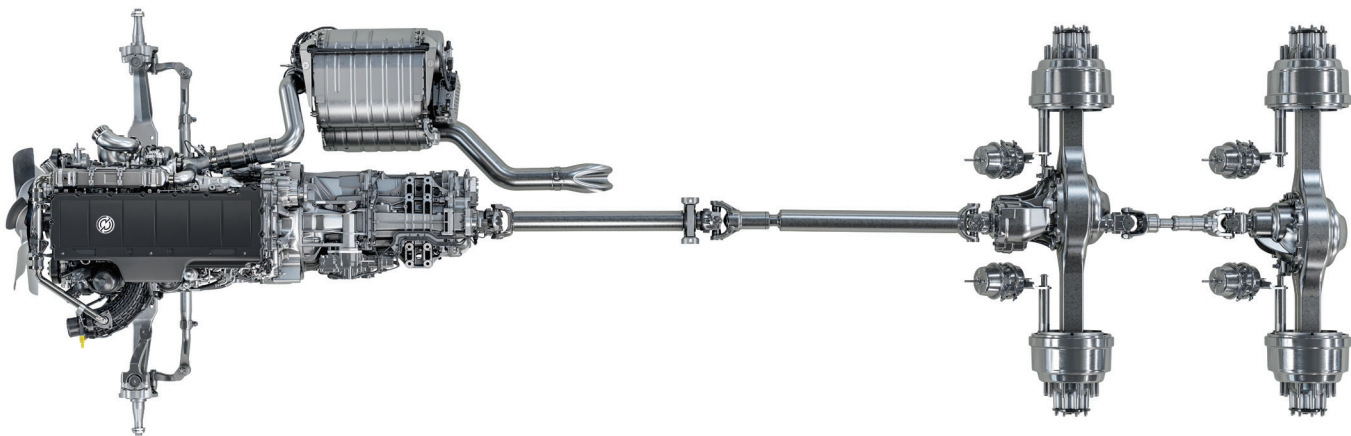
	DT12-HE	DT12-H	DT12-HL
Speeds	12 forward / 4 reverse		
Shift actuation	Pneumatic		
Clutch actuation	Pneumatic		
Max Input Torque (lb-ft)	2,250	2,050	1,650
Max GCWR (lb)	160,000	140,000	80,000
Overall Ratio	18.8	15	15
Lifetime (B10, miles)	1.2 million		
Oil change interval (miles)	80k lb or less: 400,000 80k lb or more: Up to 600,000* (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<sup>®</sup> 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<sup>®</sup> transmission links engines to axles and communicates with the DD13<sup>®</sup> Gen 5 and DD15<sup>®</sup> Gen 5 on an integrated electronics network to share damage-reducing information such as clutch overloading and driveline protection.

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