

THE NEW DT12-HE TRANSMISSION

THE BEST JUST GOT BETTER.

Designed for ultimate on-highway efficiency and performance.

The new DT12-HE automated manual transmission is purpose-built for extreme efficiency, performance and reliability. For customers looking to reduce fuel consumption as much as possible, the DT12-HE boasts cutting edge technology to take efficiency to the next level.

The DT12-HE Offers:

- Higher overall ratio allows for lower axle ratios and improved downspeeding
- Fuel efficiency improvements
- Low-speed maneuverability
- Flexibility for various on-highway applications: Linehaul, longhaul, regional haul and P&D

FEATURES

Optimized Gearing

- The larger, more robust gears - developed without compromising the weight of the DT12 - lead to benefits such as:
 - Faster axle ratios
 - Increased GCW
 - Increased torque
 - Improved low speed maneuverability
 - Increased durability

New Side PTO Capabilities*

- SAE 8-bolt side PTO opening (7 o'clock)
- Increased flexibility and application coverage with Chelsea & Muncie products

Adaptive Thermal Management

- The oil cooler's adaptive new bypass valve maintains oil at an optimal temperature for any running application
- Cools oil when it's needed, and bypasses when it's not

Oil Sump

- Bottom-mounted oil intake allows the oil to be picked up at the lowest level and recirculate by spraying onto the gear mesh
- Less parasitic loss due to oil splash allows for better overall efficiency

New Oil Pump

- Now located in the front bell housing and driven by the input shaft, resulting in a more continuous oil flow
- The result is higher efficiency and lubrication during all operating speeds

Optimized Range Group

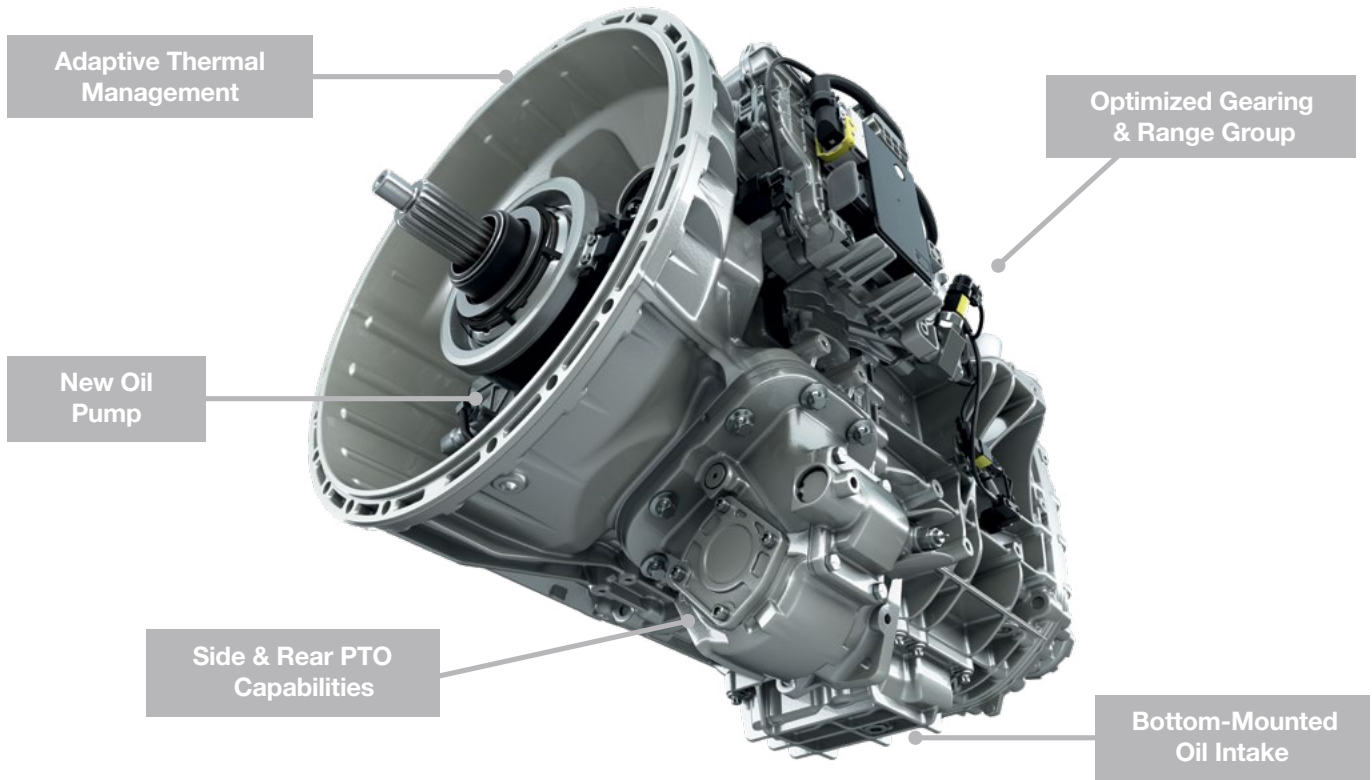
- New planetary gear set design reduces stress in planetary carrier while improving robustness and durability

*Available in 2021



DT12-HE TRANSMISSION

TECHNICAL SPECIFICATIONS



DT12 TECHNICAL SPECS

Criteria	OVERDRIVE	
	DT12-H	DT12-HE
Speeds (forward / reverse)	12 / 4	
Shift actuation	Pneumatic	
Clutch actuation	Pneumatic	
Max. input torque [lb-ft]	2,050	2,250
Max. GCWR [lb]	130,000	160,000
Overall ratio	15.0	18.8
Oil capacity [quarts]	13.7	9.9
Oil cooler required	yes	
Lifetime [B10, miles]	1.2 million	
Oil change interval [miles]	80k lb or less: 400,000 80k lb or more: 300,000	80k lb or more: 400,000 80k lb or less: Up to 600,000* (maintenance system)
Weight (dry / clutch)	646lb / 112lb	650lb / 112lb
Installation length [mm]	1201	1199
PTO capability	Rear	Rear / SAE 8 bolt side (2020)

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

