

ON-HIGHWAY

DT12™ PRODUCT ENHANCEMENTS

TECHNICAL SPECIFICATIONS

Detroit's proven industry-leading DT12 transmission gets even better!

The new DT12 automated manual transmission is ideal to pair with Detroit® engines and axles. Enhanced features build on the DT12's tradition of easy operation, optimal performance and driver comfort.

- Higher overall ratio allows for lower axle ratios and improved downspeeding
- Fuel efficiency improvements
- Low-speed manoeuvrability
- Uses: Linehaul, Longhaul, P and D, Transfer Refuse

FEATURES

Optimised Gearing

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

New Side PTO Capabilities

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

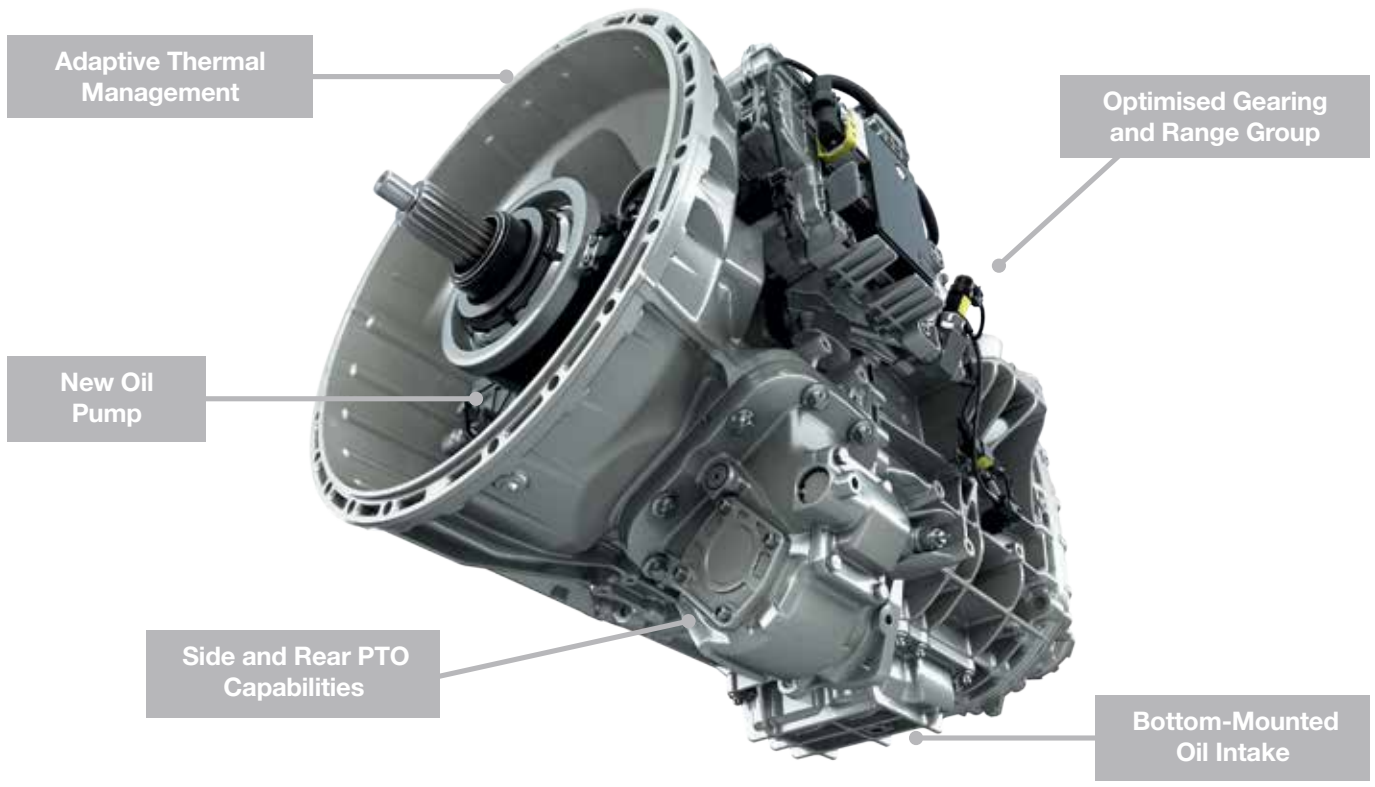
Optimised Range Group

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



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DT12 TECHNICAL SPECS

Criteria	DIRECT DRIVE	OVERDRIVE	
	DT12-DH2*	DT12-OH2*	DT12-OVX
Speeds (forward / reverse)	12 / 4	12 / 4	
Shift actuation	Pneumatic	Pneumatic	
Clutch actuation	Pneumatic	Pneumatic	
Max. input torque [lb-ft]	1,850	2,250	2,250
Max. GCM [kg]	50,000	72,000	155,000
Overall ratio	18.8	18.8	18.8
Oil capacity [litres]	9.9	9.9	9.9
Oil cooler required	yes	yes	
Oil change interval [kms]	≤80k lb: 320,000 >80k lb: 250,000	≤80k lb: 320,000	>80k lb: 250,000
Weight (dry / clutch)	650lb / 112lb ¹	650lb/112lb ¹	650lb / 112lb ¹
Installation length [mm]	1199	1199	1199
PTO capability	Rear / SAE 8 bolt side (2020)	Rear/SAE 8 bolt side (2020)	

* New for 2020

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