



DETROIT™ DT12

TECHNICAL SPECIFICATIONS

MODELS:
DT12-OHE/OV
DT12-OVX
DT12-DHE

DETROIT'S PROVEN INDUSTRY-LEADING DT12 TRANSMISSION GETS EVEN BETTER!

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

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)

ADAPTIVE THERMAL MANAGEMENT

- The oil cooler's adaptive new bypass valve maintains oil at an optimal temperature for any running application

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

OPTIMISED RANGE GROUP

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

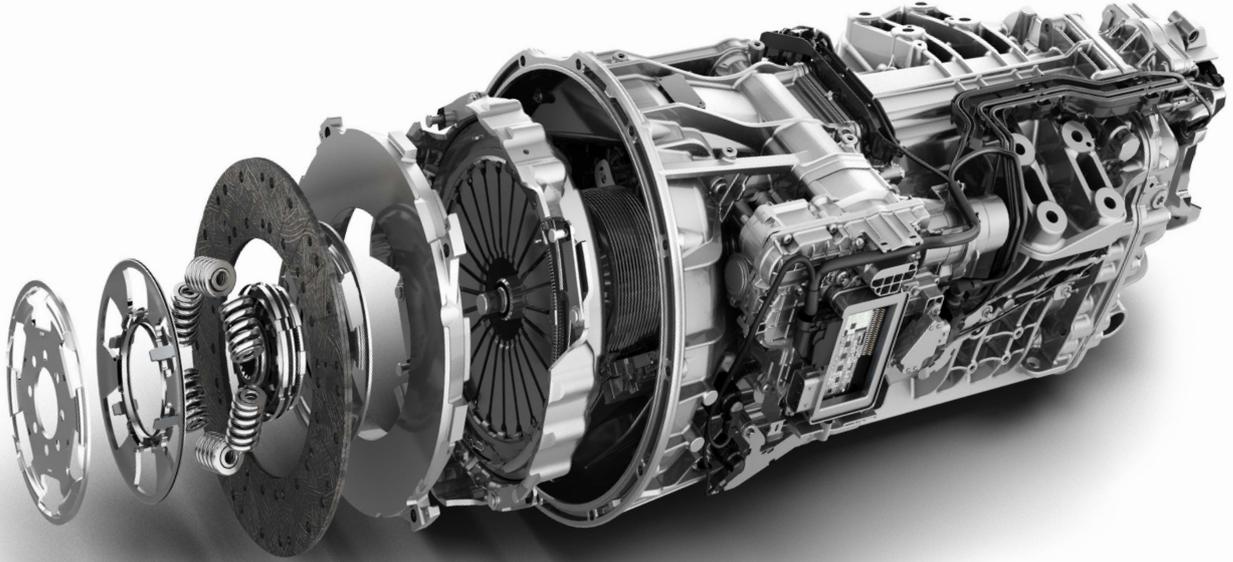
ADDITIONAL VOCATIONAL FEATURES INCLUDE:

Rock-Free Mode utilises the accelerator to help rock your vehicle free if you get stuck.

Off-Road Mode features shift maps for maximum performance on any terrain.

Paver Mode enables tipper trucks to shift from neutral to drive without pressing the brake pedal, ensuring a steady flow to an asphalt paver.

Power Launch automatically increases engine speed up to 1,200 RPM for smooth, powerful take-offs with heavy loads – all while protecting the clutch and driveline.



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Criteria	DIRECT DRIVE		OVERDRIVE	
	DHE	OHE/OV	OHE/OV	OVX
Transmission Type	Electronically Controlled Automated Manual Transmission (AMT)			
Speeds [Forward / Reverse]	12/4		12/4	
Shift Actuation	PNEUMATIC			
Clutch Actuation	PNEUMATIC			
Max. Input Torque [lb-ft / Nm]	1,850 / 2,508 lb-ft / Nm		2,250/3,050 lb-ft / Nm	
Max. GCM [kg]	50,000 kg	72,500 kg	150,000 kg	
Overall Ratio	18.8	18.7	16.4	
Oil Capacity [litres]	9.9 litres			
Oil Cooler Required	YES			
Oil Change Interval [km]	≤ 90 T: 320,000 km	≤ 90 T: 320,000 km	≤ 90 T: 250,000 km	
Weight [dry / clutch]	295kg / 50kg ¹			
Installation Length	1199			
PTO Compatibility	Rear / SAE 8 Bolt Side Mount			

GEAR RATIOS

GEAR	DHE	OHE/OV	OVX
1st	18.8	14.56	12.79
2nd	14.56	11.3	9.96
3rd	11.13	8.61	7.56
4th	8.61	6.68	5.89
5th	6.58	5.09	4.6
6th	5.09	3.95	3.58
7th	3.7	2.86	2.78
8th	2.86	2.22	2.17
9th	2.19	1.69	1.64
10th	1.69	1.31	1.28
11th	1.29	1	1
12th	1	0.78	0.78
R1	20.9	16.15	14.18
R2	16.2	12.53	11.04
R3	4.1	3.17	3.08
R4	3.17	2.46	2.4

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