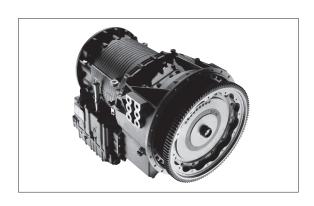


## T450 (R) specification

For Applications with engines up to 373 kW (500 hp) gross input power and up to 2100 N•m gross input torque.



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	Gross Input Torque N•m	Gross Input Power <sup>(1)</sup> kW (hp)	GVW kg	Vocations
City Bus	1750	298 (400)	29,000	City Bus
Tour Coach	2100	373 (500)	27,000	Tour Coach

## **DRIVETRAIN INTERFACES**

Acceptable full-load engine governed speed 1700 – 2300 rpm

Acceptable engine idle speed range (with transmission in Drive) 500 – 800 rpm

## MOUNTING To Engine SAE No.1 In Chassis Rear support available (required for some installations)

TORQUI	E CONVERTER	
Туре	Includes standard	One stage, three element, polyphase. I integral damper which is operational in lockup.
	Model	Stall Torque Ratio
	TC-521	2.42
	TC-531	2.34
	TC-541	1.90
	TC-551	1.79
	TC-561	1.58

MECHANICAL RATIOS (Gear ratios do not include torque converter multiplication Range		
First	3.51 : 1	
Second	1.91 : 1	
Third	1.43 : 1	
Fourth	1.00 : 1	
Fifth	0.74 : 1	
Sixth	0.64 : 1	
Reverse	-4.80 : 1	

Description	Allison 5th Generation Electronic Controls with cle	osed loop adaptive shifts
Shift Sequences [C = Converter mode (lockup clutch disengaged); L = Lockup mode (lockup clutch engaged)]		L = Lockup mode (lockup clutch engaged)]
	City Bus	Tour Coach
	Standard: 1C-[1L]-2C-2L-3L-4L-5L	Standard: 1C-[1L]-2C-2L-3L-4L-5L
	Optional: 1C-[1L]-2C-2L-3L-4L-5L-6L	Optional: 1C-[1L]-2C-2L-3L-4L-5L-6L
	Optional: 1C-[1L]-2C-2L-3L-4L	Optional: 1C-[1L]-2C-2L-3L-4L
TCM must be calibrated	for "1L" option. Second-gear-start calibrations are no	t available for all vehicle applications.
Driver-to-Transmiss	ion Interface Cab-mounted shift selector, pus	hbutton or lever with two-digit display (range selected and range attained)
Communication Pro	tocol - Engine/Vehicle Systems Interface	SAE J1939, IESCAN, PT-CAN

PHYSICAL DESCRIPTION	Installation Length*	Dry Weight	<b>Depth</b> below transmission centerline
Basic Model	795 mm	377 kg	338 mm
With Retarder	795 mm	411 kg	338 mm

OUTPUT RETAI	RDER PROVISION (O	PTION) Integral, hydraulic
,,	Ca	pacity
	Torque	Power
Low	1763 N∙m	373 kW (500 hp)
Medium	2170 N∙m	447 kW (600 hp)
High	2710 N∙m	447 kW (600 hp)

OIL SYSTEM		
Allison approved fluids: TES 295 and	TES 389	
Capacity, w/o PTO, excluding externa	al circuits	38 litres
Main circuit oil filter	Replaceable	element, integral
Cooler circuit oil filter	Replaceable	element, integral
Electronic oil level sensor (OLS)		Standard

SPEEDOMETER PROVISION			
Description	Non-zero-crossing square wave		
8, 16 or 40 pulses	s per revolution of transmission output shaft		
Location	Electronic output from TCM		

TACHOGRAPH PROVISION

Tone wheel 4 or 6-tooth

Mounting M18 x 1.5 metric thread
Location Transmission rear cover or retarder housing

T450 (R)

