

		Gross Input Torque ⁽²⁾ N•m	Gross Input Power ⁽²⁾ kW (hp)	Gross Input Torque ⁽²⁾⁽³⁾ N•m	Gross Input Power ⁽²⁾⁽³⁾ kW (hp)	GVW kg	GCW kg
3500	General	1166	246 (330)	n/a	n/a	n/a	n/a
	Refuse, Concrete Mixer	1166	246 (330)	n/a	n/a	27,216	n/a
	Fire Truck, Emergency	1335	246 (330)	n/a	n/a	n/a	n/a
	Dock Spotter, Tow Tractor	1166	246 (330)	n/a	n/a	n/a	36,288
	Ag Spreader, Sprayer, Blower, Feedlot Truck	1288	246 (330)	n/a	n/a	n/a	n/a
3500 ORS	Articulated Dump	1100	246 (330)	n/a	n/a	44,500	n/a
	Rigid Dump	1100	246 (330)	n/a	n/a	44,500	n/a
3500 SP	Specialty / Military	1335	246 (330)	n/a	n/a	n/a	n/a

^{(1).} Models including vocational designations (ie: ORS, OFS, SP, MH) are for global markets. All other models within this document are targeted for outside North American markets only. (2). Gross Power rating as defined by ISO 1585 or SAE J1995. (3). Shift Energy Management (SEM) engine controls and torque limiting are required to obtain this rating.

DRIVETRAIN INTERFACES	
Acceptable full-load engine governed speed	2000 – 2800 rpm
Acceptable engine idle speed range (with transmission in Drive)	500 – 800 rpm
Maximum output shaft speed at 105 km/hr (65 mi/hr) – retarder-equipped models only	3600 rpm

MOUNTING	
To Engine	SAE No.2
In Chassis	Rear support available (required for some installations)

TORQUE CONVERTER				
Type Includ	One stage, three element, polyphase. Includes standard integral damper which is operational in lockup.			
Mod	Model Stall Torque Ratio			
TC-4	111	2.71		
TC-4	113	2.44		
TC-4	115	2.35		
TC-4	117	2.20		
TC-4	118	1.98		
TC-4	119	2.02		
TC-4	121	1.77		

nge	
First	4.59 : 1
Second	2.25 : 1
Third	1.54 : 1
Fourth	1.00 : 1
Fifth	0.75 : 1
Sixth	0.65 : 1
Reverse	-5.00 : 1

CONTROL SYSTEM	1			
Description	Allison 5th Generation Electronic Controls with closed loop adaptive shifts			
Shift Sequences	[C = Converter mode	(lockup clutch disengaged); $L = Lockup mode (lockup clutch engaged)$		
	Option 1: 1C-[1L]-2C	-2L-3L-4L		
	Option 2: 1C-[1L]-2C	Option 2: 1C-[1L]-2C-2L-3L-4L-5L		
	Option 3: 1C-[1L]-2C-2L-3L-4L-5L-6L			
TCM mmust be calibrate	ed for "1L" option. Second	-gear-start callibrations are not available for all vehicle applications.		
Driver-to-Transmission Interface		Cab-mounted shift selector, pushbutton or lever with two-digit of	display (range selected and range attained)	
Communication Pro	Communication Protocol - Engine/Vehicle Systems Interface SAE J1939, IESCAN, PT-C			

Length*	Dry Weight	Depth below trans With Shallow Oil Sump	smission centerline With Deep Oil Sump
740 mm	243 kg	283 mm	328 mm
846 mm	261 kg	283 mm	328 mm
740 mm	289 kg	283 mm	328 mm
846 mm	297 kg	283 mm	328 mm
	846 mm 740 mm	740 mm 243 kg 846 mm 261 kg 740 mm 289 kg	With Shallow Oil Sump 740 mm 243 kg 283 mm 846 mm 261 kg 283 mm 740 mm 289 kg 283 mm

ENGINE-DRIVEN POWER TAKE-OFF PROVISION					
Mounting pad positions viewed from rear	Drive gear rating with one PTO N•m	Drive gear rating with two PTOs N•m	PTO Drive Gear	Drive	
4 o'clock and 8 o'clock (Standard)	660	930	68 tooth	Engine	
1 o'clock and 8 o'clock (Optional)	660	930	83 tooth	Engine	
Fire and Emergency	910	930 ⁽¹⁾			

Integral, hydraulic

^{(1).} Intermittent rating to 1068 N•m

Type

	Capacity	
	Torque	Power
Low	1490 N∙m	298 kW (400 hp)
Medium	1763 N∙m	373 kW (500 hp)
High	2170 N∙m	447 kW (600 hp)

OIL SYSTEM				
Allison approved fluids: TES 295 and TES 389				
Capacity including PTO, excluding external circuits				
With Deep Oil Sump	28 litres			
With Shallow Oil Sump	25 litres			
Main circuit oil filter	Replaceable element, integral			
Cooler circuit oil filter	Replaceable element, integral			
Flactronic oil level sensor (OLS)	Ctandard			

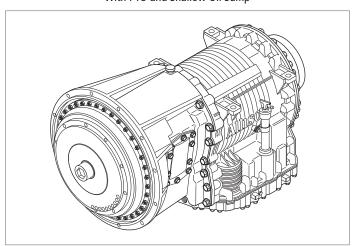
SPEEDOMETER PROVISION

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

TACHOGRAPH PROVISION

Tone wheel 4 or 6-tooth Mounting M18 x 1.5 metric thread Location Transmission rear cover or retarder housing

3500 SeriesWith PTO and Shallow Oil Sump



3500 SeriesWith Retarder, PTO and Deep Oil Sump

