

# TRANSMISSION RATINGS — 4000 PRODUCT FAMILY —

# ALLISON ON-HIGHWAY TRANSMISSIONS

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### 1.0 MODELS AND RATINGS

### 1.1 TRANSMISSION MODEL NAMES

The 4000 Product Family is comprised of several individual transmission models. The names of most transmission models consist of two elements, the base model number and the vocational model name or series. For a description, refer to <u>Transmission Families and Models</u>.

### 1.2 NOTES REGARDING INFORMATION IN THIS DOCUMENT

The following common items are applicable to all tables in this document.

- 1. Values in U.S. units shown in parenthesis () are for reference only. Conversions between metric and U.S. units are not necessarily exactly equivalent.
- 2. Gross power rating as defined by ISO 1585 or SAE J1995.
- 3. Turbine Torque limit based on <u>iSCAAN</u> standard deductions.
- 4. Refer to <u>Technical Document (TD) 180-2, Vocational Compatibility for Allison On-Highway Transmissions</u>, to determine which rating applies to your vocation.
  - For example, a 4000 RDS model used in a front-loader landfill refuse truck uses the refuse ratings. That same transmission model used in a dump truck will use the On/Off Highway ratings.

# 2.0 BUS MODELS

			2.1 B500	0					
Rating with/without Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine d Speed max rpm		dle Speed Prive max rpm
Transit Bus	313 (420)	1763 (1300)	3322 (2450)	n/a n/a	n/a n/a	1700	2300	500 *	800
Intercity Coach	410 (550)	2305 (1700)	3322 (2450)	n/a n/a	n/a n/a	1700	2300	500 *	800

# 3.0 EVS (Emergency Vehicle Series)

	3.1 4000 EVS										
Rating with/without Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	•	dle Speed Prive max rpm		
Emergency Vehicle	451 (605)	2508 (1850)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800		
Aircraft Rescue and Fire-Fighting (ARFF) Vehicles	451 (605)	2271 (1675)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800		
	•					* 600 rpm	n if dual PTOs	are used sim	nultaneously		

	3.2 4500 EVS											
Rating	Gross Input Power kW (hp)	Tor	s Input rque (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed rive max rpm		
Emergency Vehicles, ARFF Vehicles Without Torque Limiting	451 (605)	All Gear Ranges 2400 (1770)		3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800		
Emergency Vehicles, ARFF Vehicles With Torque Limiting	451 (605)	1st Gear 2400 (1770)	Gears 2-6 2508 (1850)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800		
							* 600 rpn	n if dual PTOs	are used sim	ultaneously		

		3.	.3 4700 E	vs					
Rating with/without Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		dle Speed Prive max rpm
Aircraft Rescue and Fire-Fighting (ARFF) Vehicles	451 (605)	2508 (1850)	3795 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800

NOTE: Deep Reverse Feature requires SEM/LRTP, or LRTP Only. Net Turbine Torque is 1268 Nm (935 lbft) in Deep Reverse

		;	3.4 4800 E	VS					
Rating with/without Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	•	dle Speed Prive max rpm
Aircraft Rescue and Fire-Fighting (ARFF) Vehicles	522 (700)	2644 (1950)	3795 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800

\* 600 rpm if dual PTOs are used simultaneously

NOTE: Deep Reverse Feature requires SEM/LRTP, or LRTP Only. Net Turbine Torque is 1268 Nm (935 lbft) in Deep Reverse

3.5 4850 EVS										
Rating with/without Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	Ŭ	dle Speed Orive max rpm	
Aircraft Rescue and Fire-Fighting (ARFF) Vehicles	574 (770)	2644 (1950)	3795 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800	

\* 600 rpm if dual PTOs are used simultaneously

		3	3.6 4900 E	VS					
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Prive max rpm
Emergency Vehicles, ARFF Vehicles Without Torque Limiting	597 (800)	All Gear Ranges 3200 (2360)	3796 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800
Emergency Vehicles, ARFF Vehicles With Torque Limiting	597 (800)	All Gear Ranges 3200 (2360)	4101 (3025)	n/a n/a	n/a n/a	1700	2300	500 *	800

\* 600 rpm if dual PTOs are used simultaneously NOTE: Deep Reverse Feature requires SEM/LRTP, or LRTP Only. Net Turbine Torque is 3796 Nm (2800 lbft) in Normal Reverse and 1268 Nm (935 lbft) in Deep Reverse

		;	3.7 4970 E	VS					
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)	Full Load Engine Governed Speed min rpm max rpm		•	dle Speed Prive max rpm
Emergency Vehicles, ARFF Vehicles Without Torque Limiting	597 (800)	All Gear Ranges 3200 (2360)	3457 (2550)	n/a n/a	n/a n/a	1700	2300	500 *	800
Emergency Vehicles, ARFF Vehicles With Torque Limiting	597 (800)	All Gear Ranges 3200 (2360)	4101 (3025)	n/a n/a	n/a n/a	1700	2300	500 *	800

\* 600 rpm if dual PTOs are used simultaneously

NOTE: Fast Reverse Feature requires SEM/LRTP, or LRTP Only. Net Turbine Torque is 3457 Nm (2550 lbft) in Normal Reverse and 3796 Nm (2800 lbft) in Fast Reverse

# 4.0 HS (Highway Series)

			4	1.1 4000 I	15					
Rating	Gross Input Power kW (hp)	Power Torque		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)	Full Load Engine Governed Speed min rpm max rpm		•	dle Speed rive max rpm
<b>Highway</b> Without Torque Limiting	433 (580)	All Gear Ranges 2400 (1770)		3525 (2600)	n/a n/a	n/a n/a	1700 2300		500 *	800
<b>Highway</b> With Torque Limiting	433 (580)	Gears 1-2 2400 (1770)	Gears 3-6 2508 (1850)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800

	4.2 4500 HS												
Rating	Gross Input Power kW (hp)	Gross Inp Torque Nm (lb-f		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	·	dle Speed Prive max rpm			
<b>Highway</b> Without Torque Limiting	433 (580)	All Gear Ran 2237 (1650)	ges	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800			
<b>Highway</b> With Torque Limiting	433 (580)	1st Gear 2nd Gear 2237 2400 (1650) (1770)	Gears 3-6 2508 (1850)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800			
		1					* 600 rpn	n if dual PTOs	are used sim	nultaneously			

# 5.0 MH (Motor Home Series)

			5.1 4000 N	ЛΗ					
Rating with/without Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		dle Speed Prive max rpm
Motor Home	485 (650)	2644 (1950)	3795 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800
						* 600 rpm	n if dual PTOs	are used sim	nultaneously

### 6.0 OFS (Oil Field Series)

	6.1 4430 OFS									
Rating	Gross Input Power	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW	GCW	Governe	d Engine	in D	dle Speed Prive	
with/without Torque Limiting	kW (hp)	MIII (ID-IL)	MIII (ID-IL)	kg (lbs)	kg (lbs)	min rpm	max rpm	min rpm	max rpm	
Oil Field Service	317 (425)	1650 (1217)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800	
	* 600 rpm if dual PTOs are used simultaneously									

6.2 4500 OFS										
Rating with/without Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		dle Speed Prive max rpm	
Oil Field Service and Yard Logger	433 (580)	2237 (1650)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800	
	* 600 rpm if dual PTOs are used simultaneously									

6.3 4700 OFS									
Rating	Gross Input Gross Input Power Torque		Power Torque Torque GVW GCW Governed Speed					lle Speed rive	
with/without Torque Limiting	kW (hp)	Nm (lb-ft)	Nm (lb-ft)	kg (lbs)	kg (lbs)	min rpm	max rpm	min rpm	max rpm
Oil Field Service	451 (605)	2508 (1850)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800

\* 600 rpm if dual PTOs are used simultaneously

NOTE: Deep Reverse Feature requires SEM/LRTP, or LRTP Only. Net Turbine Torque is 1268 Nm (935 lbft) in Deep Reverse

			6.4 4750 C	FS					
Rating with/without Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine d Speed max rpm	•	dle Speed Prive max rpm
Oil Field Service	496 (665)	2644 (1950)	4067 (3000)	n/a n/a	n/a n/a	1700	2300	500 *	800

\* 600 rpm if dual PTOs are used simultaneously

Without Power		10.1940		Net Turbine Torque GVW		GCW		d Engine ed Speed	Engine Idle Speed in Drive	
Torque Limiting	kW (hp)	Nm (	(lb-ft)	Nm (lb-ft)	kg (lbs)	kg (lbs)	min rpm	max rpm	min rpm	max rpn
Oil Field Service (Dual Mode)	503 (675)	30	Ranges 900 213)	3796 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800
Oil Field Service (Pumping - Only)	503 (675)	30	All Gear Ranges 3000 (2213)		n/a n/a	n/a n/a	1700	2300	500 *	800
Rating With Torque Limiting	Gross Input Power kW (hp)	Tor	Input que (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)	Full Load Engine Governed Speed min rpm max rpm		Speed in Driv	
Oil Field Service (Dual Mode & Pumping - Only)	503 (675)	Gears 1-3 3000 (2213)	Gears 4-7 3050 (2250)	4067 (3000)	n/a n/a	n/a n/a	1700	2300	500 *	800

			6	.6 4870 C	FS					
Rating	Gross Input Power kW (hp)	Tor	Input que (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	lle Speed rive max rpm
Oil Field Service Without Torque Limiting	503 (675)	All Gear Ranges 3000 (2213)		3457 (2550)	n/a n/a	n/a n/a	1700	2300	500 *	800
Oil Field Service With Torque Limiting	503 (675)	Gears 1-3 3000 (2213)	Gears 4-7 3050 (2250)	3796 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800

NOTE: Fast Reverse Feature requires SEM/LRTP, or LRTP Only. Net Turbine Torque is 3457 Nm (2550 lbft) in Normal Reverse and 3796 Nm (2800 lbft) in Fast Reverse

# 7.0 ORS (Off-Road Series)

			7.1 4000 C	RS						
Rating with/without Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	•	dle Speed Prive max rpm	
Articulated Dump	358 (480)	2203 (1625)	3322 (2450)	68,500 (151,017)	n/a n/a	1700	2300	500 *	800	
Rigid Rear Dump	358 (480)	2102 (1550)	3322 (2450)	57,000 (125,663)	n/a n/a	1700	2300	500 *	800	
	* 600 rpm if dual PTOs are used simultaneously									

	7.2 4200 ORS									
Rating with/without Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine d Speed max rpm	·	dle Speed Prive max rpm	
Articulated Dump	358 (480)	2305 (1700)	3322 (2450)	81,000 (178,574)	n/a n/a	1700	2300	500 *	800	
	* 600 rpm if dual PTOs are used simultaneously									

7.3 4430 ORS									
Rating	Gross Input Power	Gross Input Torque	Net Turbine Torque	GVW	GCW	Governe	d Engine d Speed	_	
with/without Torque Limiting	kW (hp)	Nm (lb-ft)	Nm (lb-ft)	kg (lbs)	kg (lbs)	min rpm	max rpm	min rpm	max rpm
Articulated Dump	283 (380)	1675 (1235)	3322 (2450)	68,500 (151,017)	n/a n/a	1700	2300	500 *	800
Rigid Rear Dump	283 (380)	1675 (1235)	3322 (2450)	68,500 (151,017)	n/a n/a	1700	2300	500 *	800
						* 600 rpm	if dual PTOs	are used sim	nultaneously

			7	.4 4500 O	RS					
Rating Without Torque Limiting	Gross Input Power kW (hp)	Tor	Gross Input Torque Nm (lb-ft)		GVW kg (lbs)	GCW kg (lbs)		d Engine d Speed max rpm	_	lle Speed rive max rpm
Articulated Dump	358 (480)	21	Ranges 02 550)	3322 (2450)	68,500 (151,017)	n/a n/a	1700	2300	500 *	800
Rigid Rear Dump	358 (480)		02 550)	3322 (2450)	68,500 (151,017)	n/a n/a	1700	2300	500 *	800
Rating With Torque Limiting	Gross Input Power kW (hp)	Tor	Gross Input N Torque Nm (lb-ft)		GVW kg (lbs)	GCW kg (lbs)		d Engine d Speed max rpm	-	lle Speed rive max rpm
Articulated Dump	358 (480)	Gears 1-2 2102 (1550)	Gears 3-6 2203 (1625)	3322 (2450)	68,500 (151,017)	n/a n/a	1700	2300	500 *	800
							* 600 rpm	if dual PTOs	are used sim	nultaneously

			7	.5 4600 C	RS					
Rating Without Torque Limiting	Gross Input Power kW (hp)	Tor	lnput que (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		dle Speed Prive max rpm
Articulated Dump	358 (480)	21	Ranges 02 550)	3322 (2450)	81,000 (178,574)	n/a n/a	1700	2300	500 *	800
Rigid Rear Dump	358 (480)		02 550)	3322 (2450)	81,000 (178,574)	n/a n/a	1700	2300	500 *	800
Rating With Torque Limiting	Gross Input Power kW (hp)	Tor	Input que (lb-ft)	Torque GVW GCW Governed Speed		•	_	dle Speed Prive max rpm		
Articulated Dump	358 (480)	Gears 1-2 2102 (1550)	Gears 3-6 2305 (1700)	3322 (2450)	81,000 (178,574)	n/a n/a	1700	2300	500 *	800
Rigid Rear Dump	358 (480)	2102 (1550)	2305 (1700)	3322 (2450)	81,000 (178,574)	n/a n/a	1700	2300	500 *	800
	•			•	•		* 600 rpn			

	7.6 4700 ORS										
Rating Without Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)			d Engine ed Speed max rpm	Engine Idle Spee in Drive n min rpm max rp			
Articulated Dump	373 (500)	All Gear Ranges 2305 (1700)	3322 (2450)	81,000 (178,574)	n/a n/a	1700	2300	500 *	800		
Mining/Off-Highway (Hauling rock, ore, gravel, dirt, etc.)	433 (580)	All Gear Ranges 2400 (1770)	3525 (2600)	62,596 (138,000)	n/a n/a	1700	2300	500 *	800		

NOTE: Deep Reverse Feature requires SEM/LRTP, or LRTP Only. Net Turbine Torque is 1268 Nm (935 lbft) in Deep Reverse

			7.	.7 4800 C	RS					
Rating Without Torque Limiting	Gross Input Power kW (hp)	Tor	s Input que (Ib-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine d Speed max rpm	_	lle Speed rive max rpm
Articulated Dump	451 (605)	25	Ranges 508 350)	3525 (2600)	96,000 (211,644)	n/a n/a	1700	2300	500 *	800
Rigid Rear Dump	451 (605)		508 350)	3525 (2600)	96,000 (211,644)	n/a n/a	1700	2300	500 *	800
Rating With Torque Limiting	Gross Input Power kW (hp)	Tor	Gross Input Torque Nm (lb-ft)		GVW kg (lbs)	GCW kg (lbs)		d Engine d Speed max rpm	_	lle Speed rive max rpm
Mining/Off-Highway (Hauling rock, ore, gravel, dirt, etc.)	451 (605)	Gears 1-3 2400 (1770)	Gears 4-7 2508 (1850)	3525 (2600)	62,596 (138,000)	n/a n/a	1700	2300	500 *	800

\* 600 rpm if dual PTOs are used simultaneously

# 8.0 RDS (Rugged Duty Series)

8.1 4000 RDS										
Rating Without Torque Limiting	Gross Input Power kW (hp)	Tor	s Input que (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	·	lle Speed rive max rpm
On/Off-Highway	433 (580)	24	Ranges 100 770)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Refuse	373 (500)		02 550)	3322 (2450)	n/a n/a	n/a n/a	1700	2300	500 *	800
Specialty PTO	433 (580)		100 770)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)	451 (605)		508 350)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Rating With Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	·	lle Speed rive max rpm
On/Off-Highway	433 (580)	Gears 1-2 2400 (1770)	Gears 3-6 2508 (1850)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
		•	•				* 600 rpn	n if dual PTOs	are used sim	nultaneously

				8.	2 4500 R	DS					
Rating Without Torque Limiting	Gross Input Power kW (hp)	Ó	Fross Inpu Torque Nm (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		lle Speed rive max rpm
On/Off-Highway	433 (580)	A	ll Gear Range 2237 (1650)	es	3322 (2450)	n/a n/a	n/a n/a	1700	2300	500 *	800
Refuse	373 (500)		2102 (1550)		3322 (2450)	n/a n/a	n/a n/a	1700	2300	500 *	800
Specialty PTO	433 (580)		2237 (1650)		3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)	451 (605)		2237 (1650)		3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Rating With Torque Limiting	Gross Input Power kW (hp)	C	Fross Inpu Torque Nm (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		lle Speed rive max rpm
On/Off-Highway	433 (580)	1st Gear 2237 (1650)	2nd Gear 2400 (1770) ot Applicat	Gears 3-6 2508 (1850)	3322 (2450)	n/a n/a	n/a n/a	1700	2300	500 *	800
Specialty PTO	433 (580)	2237 (1650)	2400 (1770)	2400 (1770)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)	451 (605)	2237 (1650)	2508 (1850)	2508 (1850)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
								* 600 rpn	n if dual PTOs	are used sim	nultaneously

			8	.3 4700 R	DS					
Rating Without Torque Limiting	Gross Input Power kW (hp)	Tor	Input que (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine d Speed max rpm	_	lle Speed rive max rpm
On/Off-Highway	433 (580)	24	Ranges -00 (70)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Refuse	373 (500)		02 550)	3322 (2450)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)	451 (605)		608 (50)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Rating With Torque Limiting	Gross Input Power kW (hp)	Tor	Gross Input Torque Nm (lb-ft)		GVW kg (lbs)	GCW kg (lbs)		d Engine d Speed max rpm	Ü	lle Speed rive max rpm
On/Off-Highway	433 (580)	Gears 1-3 2400 (1770)	Gears 4-7 2508 (1850)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800

NOTE: Deep Reverse Feature requires SEM/LRTP, or LRTP Only. Net Turbine Torque is 1268 Nm (935 lbft) in Deep Reverse

			8	.4 4900 R	DS					
Rating Without Torque Limiting	Gross Input Power kW (hp)	Tor	s Input que (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		dle Speed Prive max rpm
On/Off-Highway	485 (650)	30	Ranges 000 213)	3796 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)	597 (800)		200 360)	3796 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800
Rating With Torque Limiting	Gross Input Power kW (hp)	Tor	s Input que (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		dle Speed Prive max rpm
On/Off-Highway	485 (650)	Gears 1-3 3000 (2213)	Gears 4-7 3051 (2250)	3796 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)	597 (800)		200 360)	4101 (3025)	n/a n/a	n/a n/a	1700	2300	500 *	800
							* 000	a if dual DTOs	l	

\* 600 rpm if dual PTOs are used simultaneously

NOTE: Deep Reverse Feature requires SEM/LRTP, or LRTP Only. Net Turbine Torque is 3796 Nm (2800 lbft) in Normal Reverse and 1268 Nm (935 lbft) in Deep Reverse

			8	.5 4970 R	DS					
Rating Without Torque Limiting	Gross Input Power kW (hp)	Tor	Input que (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Prive max rpm
On/Off-Highway	485 (650)	30	Ranges 100 113)	3457 (2550)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)	597 (800)		200 360)	3457 (2550)	n/a n/a	n/a n/a	1700	2300	500 *	800
Rating With Torque Limiting	Gross Input Power kW (hp)	Tor	Input que (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Prive max rpm
On/Off-Highway	485 (650)	Gears 1-3 3000 (2213)	Gears 4-7 3051 (2250)	3796 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)	597 (800)		200 660)	4101 (3025)	n/a n/a	n/a n/a	1700	2300	500 *	800

\* 600 rpm if dual PTOs are used simultaneously NOTE: Fast Reverse Feature requires SEM/LRTP, or LRTP Only. Net Turbine Torque is 3457 Nm (2550 lbft) in Normal Reverse and 3796 Nm (2800 lbft) in Fast Reverse

# 9.0 SP (Specialty Series)

9.1 4000 SP											
Rating with/without Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		dle Speed Orive max rpm		
Specialty / Military	485 (650)	2644 (1950)	3795 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800		
	* 600 rpm if dual PTOs are used simultaneously										

9.2 4430 SP										
Rating	Gross Input Power	Gross Input Torque	Net Turbine Torque	GVW	GCW	Governe	d Engine	in D	dle Speed Prive	
with/without Torque Limiting	kW (hp)	Nm (lb-ft)	Nm (lb-ft)	kg (lbs)	kg (lbs)	min rpm	max rpm	min rpm	max rpm	
Specialty / Military	283 (380)	1600 (1180)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800	
	* 600 rpm if dual PTOs are used simultaneously									

			Ś	3.3 4500 9	SP					
Rating	Gross Input Power kW (hp)	Toi	s Input rque (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	·	dle Speed Prive max rpm
Specialty / Military Without Torque Limiting	451 (605)	24	r Ranges 100 770)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Specialty / Military With Torque Limiting	451 (605)	1st Gear 2400 (1770)	Gears 2-6 2508 (1850)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
							* 600 rpn	n if dual PTOs	are used sim	nultaneously

9.4 4700 SP											
Rating with/without Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	·	dle Speed Prive max rpm		
Specialty / Military	451 (605)	2508 (1850)	4067 (3000)	n/a n/a	n/a n/a	1700	2300	500 *	800		

NOTE: Deep Reverse Feature requires SEM/LRTP, or LRTP Only. Net Turbine Torque is 1268 Nm (935 lbft) in Deep Reverse

9.5 4800 SP										
Rating with/without Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm		dle Speed Prive max rpm	
Specialty / Military	597 (800)	2644 (1950)	4067 (3000)	n/a n/a	n/a n/a	1700	2300	500 *	800	

\* 600 rpm if dual PTOs are used simultaneously

NOTE: Deep Reverse Feature requires SEM/LRTP, or LRTP Only. Net Turbine Torque is 1268 Nm (935 lbft) in Deep Reverse

9.6 4900 SP										
Rating	Gross Input Power	Gross Input Torque	Net Turbine Torque	GVW	GCW	Governe	d Engine ed Speed	in D	dle Speed Prive	
with/without Torque Limiting	kW (hp)	Nm (lb-ft)	Nm (lb-ft)	kg (lbs)	kg (lbs)	min rpm	max rpm	min rpm	max rpm	
Specialty / Military	597 (800)	3200 (2360)	4101 (3025)	n/a n/a	n/a n/a	1700	2300	500 *	800	

\* 600 rpm if dual PTOs are used simultaneously

			9.7 4970 9	SP					
Rating	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	_	dle Speed Prive max rpm
Specialty / Military Without Torque Limiting	597 (800)	All Gear Ranges 3200 (2360)	3457 (2550)	n/a n/a	n/a n/a	1700	2300	500 *	800
Specialty / Military With Torque Limiting	597 (800)	All Gear Ranges 3200 (2360)	4101 (3025)	n/a n/a	n/a n/a	1700	2300	500 *	800

\* 600 rpm if dual PTOs are used simultaneously NOTE: Fast Reverse Feature requires SEM/LRTP, or LRTP Only. Net Turbine Torque is 3457 Nm (2550 lbft) in Normal Reverse and 3796 Nm (2800 lbft) in Fast Reverse

# 10.0 T (Torqmatic Series)

10.1 T425										
Rating with/without Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	U	dle Speed Prive max rpm	
Transit Bus	283 (380)	1650 (1217)	3322 (2450)	29,000 (63,935)	n/a n/a	1700	2300	500 *	800	
Intercity Coach	283 (380)	1750 (1291)	3322 (2450)	27,000 (59,525)	n/a n/a	1700	2300	500 *	800	
						* 600 rpn	n if dual PTOs	are used sin	nultaneously	

			10.2 T45	0					
Rating with/without Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine d Speed max rpm	•	dle Speed Prive max rpm
Transit Bus	298 (400)	1750 (1291)	3322 (2450)	29,000 (63,935)	n/a n/a	1700	2300	500 *	800
Intercity Coach	373 (500)	2100 (1549)	3322 (2450)	27,000 (59,525)	n/a n/a	1700	2300	500 *	800
	•		•	•		* 600 rpm	if dual PTOs	are used sim	nultaneously

	10.3 T525										
Rating with/without Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine d Speed max rpm	_	dle Speed Prive max rpm		
Intercity Coach	410 (550)	2600 (1918)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800		
	* 600 rpm if dual PTOs are used simultaneously										

# 11.0 TRV (Truck-Based Recreational Vehicle Series)

Rating	Gross Input Gross Input Net Turbine Power Torque Torque		GVW	GCW	Full Load Engine Governed Speed		_	lle Speed rive	
with/without Torque Limiting	kW (hp)	Nm (lb-ft)	Nm (lb-ft)	kg (lbs)	kg (lbs)	min rpm	max rpm	min rpm	max rpm
Truck-Based Recreational Vehicle	451 (605)	2508 (1850)	3795 (2800)	23,587 (52,000)	32,659 (72,000)	1700	2300	500 *	800

# 12.0 WBD (Wide Body Dump Series)

	12.1 4430 WBD											
Rating	ŭ l		Net Turbine Torque Nm (lb-ft)	GVW			d Engine ed Speed	in D	dle Speed Prive			
with/without Torque Limiting	KWV (NP)	Nm (lb-ft)	MIII (ID-IL)	kg (lbs)	kg (lbs)	min rpm	max rpm	min rpm	max rpm			
Wide Body Dump	283 (380)	1675 (1235)	3322 (2450)	68,500 (151,017)	n/a n/a	1700	2300	500 *	800			
						* 600 rpn	n if dual PTOs	are used sin	nultaneously			

			12	.2 4600 V	VBD					
Rating Without Torque Limiting	Gross Input Power kW (hp)	Tor	s Input que (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	U	dle Speed rive max rpm
Wide Body Dump	390 (523)	21	All Gear Ranges 2102 (1550)		90,000 (198,416)	n/a n/a	1700	2300	500 *	800
Rating With Torque Limiting	Gross Input Power kW (hp)	Tor	Gross Input N Torque Nm (lb-ft)		GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	U	dle Speed rive max rpm
Wide Body Dump	390 (523)	Gears 1-2 2102 (1550)	Gears 3-6 2305 (1700)	3322 (2450)	90,000 (198,416)	n/a n/a	1700	2300	500 *	800
	•			1			* 600 rpn	if dual PTOs	are used sim	ultaneously

	12.3 4800 WBD											
Rating	Gross Input Gross Input Power Torque kW (hp) Nm (lb-ft)		Net Turbine Torque GVW GCW Nm (lb-ft) kg (lbs) kg (lbs)				d Engine	in Drive				
with/without Torque Limiting	KW (np)	( ' ')	NIII (ID-IL)	kg (lbs)	kg (lbs)	min rpm	max rpm	min rpm	max rpm			
Wide Body Dump	451 (605)	All Gear Ranges 2508 (1850)	3525 (2600)	105,000 (231,485)	n/a n/a	1700	2300	500 *	800			

### 13.0 4000 International Series

			13.	1 4000 M	lodel					
Rating Without Torque Limiting	Gross Input Power kW (hp)	Toi	s Input que (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	U	dle Speed Prive max rpm
General	421 (565)	24	r Ranges 100 770)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Fire Truck, Emergency	447 (600)		508 350)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Aircraft Rescue and Fire-Fighting Vehicle	447 (600)	—·	508 350)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)	447 (600)	—·	2508 (1850)		n/a n/a	n/a n/a	1700	2300	500 *	800
Refuse Vehicle	373 (500)	<del>-</del>	2102 (1550)		n/a n/a	n/a n/a	1700	2300	500 *	800
Ag Spreader, Sprayer, Blower, Feedlot Truck	421 (565)	<del>-</del>	100 770)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Rating With Torque Limiting	Gross Input Power kW (hp)	Toi	Gross Input N Torque Nm (lb-ft)		GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	U	dle Speed Prive max rpm
General	421 (565)	Gears 1-2 2400 (1770)	Gears 3-6 2508 (1850)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Refuse Vehicle	373 (500)	2300 (1696)	2300 (1696)	3322 (2450)	n/a n/a	n/a n/a	1700	2300	500 *	800

\* 600 rpm if dual PTOs are used simultaneously NOTE: If equipped with the ground-driven steering pump provision, the maximum N/v ratio is 28.57 rpm/kph (46.00 rpm/mph)

Rating	Gross Input Power	Gross Input Torque	Net Turbine Torque	GVW	GCW	Governe	d Engine d Speed	Engine Idle Specin In Drive	
with/without Torque Limiting	kW (hp)	Nm (lb-ft)	Nm (lb-ft)	kg (lbs)	kg (lbs)	min rpm	max rpm	min rpm	max rpm
General	283 (380)	1560 (1150)	3322 (2450)	n/a n/a	n/a n/a	1700	2300	500 *	800
Highway	283 (380)	1560 (1150)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Fire Truck, Emergency	283 (380)	1560 (1150)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Aircraft Rescue and Fire-Fighting Vehicle	283 (380)	1560 (1150)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)	283 (380)	1560 (1150)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Refuse Vehicle	283 (380)	1560 (1150)	3322 (2450)	n/a n/a	n/a n/a	1700	2300	500 *	800
Ag Spreader, Sprayer, Blower, Feedlot Truck	283 (380)	1560 (1150)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800

Rating	Gross Input Power	Gross Input Torque	Net Turbine Torque	GVW	GCW	Governe	d Engine ed Speed	Engine Idle Speed in Drive	
with/without Torque Limiting	kW (hp)	Nm (lb-ft)	Nm (lb-ft)	kg (lbs)	kg (lbs)	min rpm	max rpm	min rpm	max rpm
General	317 (425)	1776 (1310)	3322 (2450)	n/a n/a	n/a n/a	1700	2300	500 *	800
Highway	317 (425)	1776 (1310)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Fire Truck, Emergency	317 (425)	1776 (1310)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Aircraft Rescue and Fire-Fighting Vehicle	317 (425)	1776 (1310)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)	317 (425)	1776 (1310)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Refuse Vehicle	317 (425)	1776 (1310)	3322 (2450)	n/a n/a	n/a n/a	1700	2300	500 *	800
Ag Spreader, Sprayer, Blower, Feedlot Truck	317 (425)	1776 (1310)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800

				13.	4 4500 M	odel					
Rating Without Torque Limiting	Gross Input Power kW (hp)	G	Fross Inpu Torque Nm (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)	Full Load Governe min rpm	_	Engine Id in D min rpm	-
, ,	( 17	A	ll Gear Rang		(	3 ( /	3 ( 1-1)	l'			
General	421 (565)		2237 (1650)		3322 (2450)	n/a n/a	n/a n/a	1700	2300	500 *	800
Highway	421 (565)		2237 (1650)		3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Fire Truck, Emergency	447 (600)		2400 (1770)		3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Aircraft Rescue and Fire-Fighting Vehicle	447 (600)		2400 (1770)		3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)	447 (600)		2237 (1650)		3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Refuse Vehicle	373 (500)		2102 (1550)		3322 (2450)	n/a n/a	n/a n/a	1700	2300	500 *	800
Ag Spreader, Sprayer, Blower, Feedlot Truck	421 (565)		2237 (1650)		3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Rating With Torque Limiting	Gross Input Power kW (hp)	Ó	Fross Inpu Torque Nm (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine d Speed max rpm	Engine Id in D min rpm	
General	421 (565)	1st Gear 2237 (1650)	2nd Gear 2400 (1770)	Gears 3-6 2508 (1850)	3322 (2450)	n/a n/a	n/a n/a	1700	2300	500 *	800
Highway	421 (565)	2237 (1650)	2400 (1770)	2508 (1850)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Fire Truck, Emergency	447 (600)	2400 (1770)	2508 (1850)	2508 (1850)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Aircraft Rescue and Fire-Fighting Vehicle	447 (600)	2400 (1770)	2508 (1850)	2508 (1850)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)	447 (600)	2237 (1650)	2508 (1850)	2508 (1850)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Refuse Vehicle	373 (500)	2102 (1550)	2102 (1550)	2300 (1696)	3322 (2450)	n/a n/a	n/a n/a	1700	2300	500 *	800
Ag Spreader, Sprayer, Blower, Feedlot Truck	421 (565)	2237 (1650)	2400 (1770)	2400 (1770)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800

NOTE: If equipped with the ground-driven steering pump provision, the maximum N/v ratio is 28.57 rpm/kph (46.00 rpm/mph)

			13.	5 4700 M	odel					
Rating Without Torque Limiting	Gross Input Power kW (hp)	Tor	lnput que (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)	Full Load Engine Governed Speed min rpm max rpm		Engine Idle Speed in Drive min rpm max rpm	
General	421 (565)	All Gear Ranges 2400 (1770)		3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Aircraft Rescue and Fire-Fighting Vehicle	447 (600)	2508 (1850)		3795 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)	447 (600)	2508 (1850)		3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800
Refuse Vehicle	373 (500)		02 550)	3322 (2450)	n/a n/a	n/a n/a	1700	2300	500 *	800
Rating With Torque Limiting	Gross Input Power kW (hp)	ut Gross Input Torque Nm (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)	Full Load Engine Governed Speed min rpm max rpm		Engine Idle Speed in Drive min rpm max rp	
General	421 (565)	Gears 1-3 2400 (1770)	Gears 4-7 2508 (1850)	3525 (2600)	n/a n/a	n/a n/a	1700	2300	500 *	800

\* 600 rpm if dual PTOs are used simultaneously NOTE: Deep Reverse Feature requires SEM/LRTP, or LRTP Only. Net Turbine Torque is 1268 Nm (935 lbft) in Deep Reverse

13.6 4800 Model											
Rating	Gross Input Power	Gross Input Torque	Net Turbine Torque	GVW	GCW	Full Load Engine Governed Speed		Engine Idle Speed in Drive			
with/without Torque Limiting	kW (hp)	Nm (lb-ft)	Nm (lb-ft)	kg (lbs)	kg (lbs)	min rpm	max rpm	min rpm	max rpm		
Aircraft Rescue and Fire-Fighting Vehicle	522 (700)	2644 (1950)	3795 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800		

\* 600 rpm if dual PTOs are used simultaneously

			13	.7 4900 M	odel					
Rating Without Torque Limiting	Gross Input Power kW (hp)	Tor	Input que (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine d Speed max rpm	Engine Idle Speed in Drive min rpm max rpm	
General	485 (650)	All Gear Ranges 3000 (2213)		3796 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800
Aircraft Rescue and Fire-Fighting Vehicle	597 (800)	3200 (2360)		3796 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)	597 (800)	3200 (2360)		3796 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800
Rating With Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)	Full Load Engine Governed Speed min rpm max rpm		Engine Idle Speed in Drive min rpm max rpm	
General	485 (650)	Gears 1-3 3000 (2213)	Gears 4-7 3051 (2250)	3796 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800
Aircraft Rescue and Fire-Fighting Vehicle	597 (800)	3200 (2360)		4101 (3025)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)	597 (800)		00 60)	4101 (3025)	n/a n/a	n/a n/a	1700	2300	500 *	800

\* 600 rpm if dual PTOs are used simultaneously NOTE: Deep Reverse Feature requires SEM/LRTP, or LRTP Only. Net Turbine Torque is 3796 Nm (2800 lbft) in Normal Reverse and 1268 Nm (935 lbft) in Deep Reverse

			13.	.8 4970 M	odel					
Rating Without Torque Limiting	Gross Input Power kW (hp)	Tor	Input que (lb-ft)	Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)		d Engine ed Speed max rpm	·	dle Speed rive max rpn
General	485 (650)	All Gear Ranges 3000 (2213)		3457 (2550)	n/a n/a	n/a n/a	1700	2300	500 *	800
Aircraft Rescue and Fire-Fighting Vehicle	597 (800)	3200 (2360)		3457 (2550)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)	597 (800)	3200 (2360)		3457 (2550)	n/a n/a	n/a n/a	1700	2300	500 *	800
Rating With Torque Limiting	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)		Net Turbine Torque Nm (lb-ft)	GVW kg (lbs)	GCW kg (lbs)	Full Load Engine Governed Speed min rpm max rpm		Engine Idle Speed in Drive min rpm max rpr	
General	485 (650)	Gears 1-3 3000 (2213)	Gears 4-7 3051 (2250)	3796 (2800)	n/a n/a	n/a n/a	1700	2300	500 *	800
Aircraft Rescue and Fire-Fighting Vehicle	597 (800)	3200 (2360)		4101 (3025)	n/a n/a	n/a n/a	1700	2300	500 *	800
Heavy Equipment Transporter (HET)			4100 (3025)	n/a n/a	n/a n/a	1700	2300	500 *	800	

\* 600 rpm if dual PTOs are used simultaneously NOTE: Fast Reverse Feature requires SEM/LRTP, or LRTP Only. Net Turbine Torque is 3457 Nm (2550 lbft) in Normal Reverse and 3796 Nm (2800 lbft) in Fast Reverse

### LIST OF REFERENCED DOCUMENTS

- iSCAAN, Allison's vehicle performance calculation program
- Transmission Families and Models

### **Technical Documents (TD's)**

- TD-180-2, Vocational Compatibility for Allison On-Highway Transmissions
- TD-188, Application and Installation Requirements for the 2nd Reverse Feature with 4th Gen Controls
- TD-191, Application and Installation Requirements for the 2nd Reverse Feature with 5th Gen Controls

### **REVISION HISTORY**

#### March 5, 2024

• In 13.3, correct 4800 Wide Body Dump GVW rating to 231,485 lb.

#### January 31, 2024

• In 13.3, increase 4800 Wide Body Dump GVW rating to 105,000 kg (231,525 lb).

#### December 8, 2023

Added "with/without Torque Limiting" for added clarification for the ratings that can be used with or without Torque Limiting engines.

#### September 29, 2023

- In 12.2 add new ratings for 4600 WBD raise Gross Input Power to 390 kW (523 hp) and GVW to 90,000 kg (198,416 lbs)
- Remove cancelled model, 4500 WBD, from Tech Data

#### July 25, 2023

• In 9.6, add new ratings for 4900 SP removed with and without torque limiting ratings

#### June 16, 2023

In 6.5, add new ratings for 4800 OFS adding ratings for Dual Mode and Pumping Only

#### March 1, 2023

• Update notes for SEM/LRPT requirement for Deep and Fast Reverse for the 7-Speed Models.

### **December 19, 2022**

- In 3.6, add ratings for the 4900 EVS
- In 3.7, add ratings for the 4970 EVS
- In 8.4, add ratings for the 4900 RDS
- In 8.5, add ratings for the 4970 RDS
- In 9.7, add ratings for the 4970 SP
- In 13.7, add ratings for the 4970 International
- In 13.8, add ratings for the 4970 International

#### November 30, 2022

• In 9.6, add new ratings for 4900 SP

### November 28, 2022

- In 6.5, add new ratings for 4800 OFS
- In 6.6, add new ratings for 4870 OFS