

# Ratings and Specifications

RATINGS								
MODEL	RATIO	PARK PAWL	INPUT POWER <sup>1</sup>	INPUT TORQUE <sup>1</sup>	INPUT TORQUE W/SEM <sup>1,2</sup>	TURBINE TORQUE <sup>3</sup>	GVW	GCW
			hp (kW)	lb-ft (N • m)	lb-ft (N • m)	lb-ft (N • m)	lbs (kg)	lbs (kg)
1000 MH	Close Ratio	Yes	340 (254)	550 (746)	565 (766)	850 (1152)	22,000 (10,000)	26,000 (11,800)
2100 MH	Close Ratio	No	340 (254)	550 (746)	600 (813)	850 (1152)	26,000 (11,800)	30,000 (13,600)
2200 MH	Close Ratio	Yes	340 (254)	550 (746)	600 (813)	850 (1152)	26,000 (11,800)	26,000 (11,800)
2500 MH	Wide Ratio	No	300 (224)	550 (746)	600 (813)	850 (1152)	33,000 (15,000)	33,000 (15,000)
3000 MH	Close Ratio	—	400 (298)	1200 (1627)	—	1555 (2108)	—	—
4000 MH	Close Ratio	—	525 (391)	1650 (2237)	—	2600 (3525)	—	—

1 Gross ratings as defined by ISO 1585 or SAE J1995. 2 SEM = engine controls with Shift Energy Management. 3 Turbine torque limit based on iSCAN standard deductions

ENGINE SPEEDS			
MODEL	FULL LOAD GOVERNED SPEED	IDLE SPEED IN DRIVE	OUTPUT SHAFT SPEED
	Min-Max (rpm)	Min-Max (rpm)	rpm
1000	2200-4600 <sup>1</sup>	500-900	5000
2100/2200	2200-4600 <sup>1</sup>	500-900	4500
2500	2200-4500 <sup>1</sup>	500-900	4500
3000	2000-2800	500-800	3600 <sup>2</sup>
4000	1700-2300	500-800	—

1 Engines with full load governed speed greater than 3200 rpm require Application Engineering review. 2 Retarder-equipped models only.

GEAR RATIOS – TORQUE CONVERTER MULTIPLICATION NOT INCLUDED							
MODEL	FIRST	SECOND	THIRD	FOURTH	FIFTH	SIXTH	REVERSE
1000 MH	3.10:1	1.81:1	1.41:1	1.00:1	0.71:1	—	-4.49:1
2100 MH	3.10:1	1.81:1	1.41:1	1.00:1	0.71:1	—	-4.49:1
2200 MH	3.10:1	1.81:1	1.41:1	1.00:1	0.71:1	—	-4.49:1
2500 MH	3.51:1	1.90:1	1.44:1	1.00:1	0.74:1	—	-5.09:1
3000 MH	3.49:1	1.86:1	1.41:1	1.00:1	0.75:1	0.65:1	-5.03:1
4000 MH	3.51:1	1.91:1	1.43:1	1.00:1	0.74:1	0.64:1	-4.80:1

OPTIONAL RETARDER PROVISION – INTEGRAL, HYDRAULIC TYPE		
BASE MODEL	TORQUE CAPACITY	POWER CAPACITY
	lb-ft (N • m)	hp (kW)
3000		
– High	1600 (2170)	600 (447)
– Medium	1300 (1760)	500 (373)
– Low	1100 (1490)	400 (298)
4000		
– High	2000 (2710)	600 (447)
– Medium	1600 (2170)	600 (447)
– Low	1300 (1760)	500 (373)

OPTIONAL POWER TAKEOFF PROVISION – CONTINUOUS OPERATION				
BASE MODEL	MOUNTING PAD POSITIONS VIEWED FROM REAR	DRIVE GEAR RATING WITH ONE PTO	DRIVE GEAR RATING WITH TWO PTOS	DRIVE
		lb-ft (N • m)	lb-ft (N • m)	
1000 <sup>1</sup>	3 and 9 o'clock	250 (339)	200 (271)	Turbine
2000 <sup>1</sup>	3 and 9 o'clock	250 (339)	200 (271)	Turbine
3000 <sup>1</sup>	4 and 8 o'clock	485 (660)	685 (930)	Engine
4000 <sup>1</sup>	1 and 8 o'clock	685 (930)	1175 (1595)	Engine

1 PTO-delete option available.

## TORQUE CONVERTER SPECIFICATIONS

BASE MODEL	TORQUE CONVERTER	NOMINAL STALL TORQUE
<b>1000</b>		
	TC-210	2.05
	TC-211	2.00
	TC-221	1.73
	TC-222	1.58
<b>2000</b>		
	TC-210	2.05
	TC-211	2.00
	TC-221	1.73
	TC-222	1.58
<b>3000</b>		
	TC-411	2.71
	TC-413	2.44
	TC-415	2.35
	TC-417	2.20
	TC-418	1.98
	TC-419	2.02
	TC-421	1.77
<b>4000</b>		
	TC-521	2.42
	TC-531	2.34
	TC-541	1.90
	TC-551	1.79
	TC-561	1.58

## PHYSICAL DESCRIPTION

BASE MODEL	LENGTH <sup>1</sup>	DEPTH <sup>2</sup> W/DEEP OIL PAN/SUMP	DEPTH <sup>2</sup> W/SHALLOW OIL PAN/SUMP	DRY WEIGHT
	in (mm)	in (mm)	in (mm)	lbs (kg)
<b>1000</b>				
- SAE No. 3 mounting	28.01 (711.4)	11.22 (284.9)	10.71 (272.0)	330 (150)
- SAE No. 2 mounting	28.29 (721.1)	11.22 (284.9)	10.71 (272.0)	330 (150)
<b>2000</b>				
- SAE No. 3 mounting	28.01 (711.4)	11.22 (284.9)	10.71 (272.0)	330 (150)
- SAE No. 2 mounting	28.29 (721.1)	11.22 (284.9)	10.71 (272.0)	330 (150)
<b>3000</b>				
- Basic model	28.16 (715.3)	12.90 (327.7)	11.13 (282.7)	535 (243)
- With PTO only	32.36 (822.0)	12.90 (327.7)	11.13 (282.7)	575 (261)
- With retarder only	28.16 (715.3)	12.90 (327.7)	11.13 (282.7)	615 (279)
- With PTO & retarder	32.36 (822.0)	12.90 (327.7)	11.13 (282.7)	655 (298)
<b>4000</b>				
- Basic model	30.75 (781.1)	14.75 (374.7)	13.17 (334.6)	831 (377)
- With PTO only	33.62 (854.0)	14.75 (374.7)	13.17 (334.6)	893 (405)
- With retarder only	30.75 (781.1)	14.75 (374.7)	13.17 (334.6)	906 (411)
- With PTO & retarder	33.62 (854.0)	14.75 (374.7)	13.17 (334.6)	968 (439)

<sup>1</sup> Length measured from flywheel housing to end of output shaft. <sup>2</sup> Depth measured below transmission centerline.

## OIL SYSTEM

BASE MODEL	CAPACITY <sup>1</sup>	MAIN CIRCUIT FILTER	LUBE CIRCUIT FILTER	ELECTRONIC OIL LEVEL SENSOR (OLS)
	quarts (liters)			
<b>1000</b>		Spin-On Canister	—	—
- Deep Oil Pan	19 (18)			
- Shallow Oil Pan	17 (16)			
<b>2000</b>		Spin-On Canister	—	—
- Deep Oil Pan	19 (18)			
<b>3000</b>		Integral	Integral	Standard
- Deep Oil Sump	29 (27)			
- Shallow Oil Sump	26 (25)			
<b>4000</b>		Integral	Integral	Standard
- Deep Oil Sump and PTO	51 (48)			
- Deep Oil Sump	48 (45)			
- Shallow Oil Sump and PTO	43 (41)			
- Shallow Oil Sump	40 (38)			

*Recommended oil types for all models are TranSynd™ or Dexron®-III.*

<sup>1</sup> Transmission only. Does not include cooler, hoses or fittings.