



TRANSMISSION INPUT/OUTPUT RATINGS

ALLISON OFF-HIGHWAY TRANSMISSIONS

The following topics relating to ratings of Allison Off-Highway transmission models are included in this document:

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Revision History

ALLISON OFF-HIGHWAY TRANSMISSION INPUT / OUTPUT RATINGS

1.0 GENERAL INFORMATION

The following common items are applicable to all tables in this section:

1. Values in U.S. units shown in parentheses () are for reference only.
Conversions between metric and U.S. units are not necessarily exactly equivalent.
2. Refer to Technical Document 180 (TD-180) to determine which ratings apply to which vocations.
3. Turbine Torque limits are based on standard iSCAAN deductions.

2.0 INPUT / OUTPUT RATINGS — 5000 SERIES MODELS

2.1 5620 ORS MODEL

	<u>Input Power</u>		<u>Input Torque</u>		<u>Turbine Torque</u>	<u>Speeds</u>	
	hp (kW)	gross net	lb-ft (N•m)	gross net	lb-ft (N•m) net		
STRAIGHT-THRU MODELS							
Hauling Applications	600 (447)	550 (410)	1875 (2542)	1750 (2373)	3475 (4711)	Engine Speeds <u>Full Load Governed Speed</u> Maximum 2500 rpm Minimum 1900 rpm <u>Idle Speed in Drive</u> Minimum 550 rpm	
DROPBOX MODELS							
Hauling Applications	600 (447)	550 (410)	1875 (2542)	1750 (2373)	3475 (4711)		

2.2 5620 SP MODEL

	<u>Input Power</u>		<u>Input Torque</u>		<u>Turbine Torque</u>	<u>Speeds</u>
	hp (kW)	gross net	lb-ft (N•m)	gross net	lb-ft (N•m) net	
STRAIGHT-THRU MODELS						
General	600 (447)	550 (410)	1875 (2542)	1750 (2373)	3475 (4711)	Engine Speeds <u>Full Load Governed Speed</u> Maximum 2500 rpm Minimum 1900 rpm <u>Idle Speed in Drive</u> Minimum 550 rpm
Ag Tractor	500 (373)	450 (335)	1650 (2237)	1485 (2013)	3120 (4230)	
Aircraft Rescue and Fire-Fighting (ARFF) Vehicle	750 (559)	710 (529)	2500 (3390)	2270 (3078)	3790 (5139)	
DROPBOX MODELS						
General	600 (447)	550 (410)	1875 (2542)	1750 (2373)	3475 (4711)	

2.3 5620 OFS MODEL

	<u>Input Power</u>		<u>Input Torque</u>		<u>Turbine Torque</u>	<u>Speeds</u>
	hp (kW)	gross net	lb-ft (N•m)	gross net	lb-ft (N•m) net	
STRAIGHT-THRU MODELS						
Oil Field - General	600 (447)	550 (410)	1875 (2542)	1750 (2373)	3475 (4711)	Engine Speeds <u>Full Load Governed Speed</u> Maximum 2500 rpm Minimum 1900 rpm <u>Idle Speed in Drive</u> Minimum 550 rpm
Oil Field - Stationary Pump	675 (503)	625 (466)	2150 (2915)	1950 (2644)	3475 (4711)	
DROPBOX MODELS						
Oil Field - General	600 (447)	550 (410)	1875 (2542)	1750 (2373)	3475 (4711)	

3.0 INPUT / OUTPUT RATINGS — 6000 SERIES MODELS

3.1 6620 ORS / 6625 ORS MODEL

	<u>Input Power</u> hp (kW)		<u>Input Torque</u> lb-ft (N•m)		<u>Turbine Torque</u> lb-ft (N•m)	<u>Speeds</u>
	gross	net	gross	net	net	
Hauling Applications	760 (567)	710 (529)	2500 (3390)	2270 (3078)	3790 (5139)	Engine Speeds <u>Full Load Governed Speed</u> Maximum 2500 rpm Minimum 1900 rpm <u>Idle Speed in Drive</u> Minimum 550 rpm

3.2 6620 SP / 6625 SP MODEL

	<u>Input Power</u> hp (kW)		<u>Input Torque</u> lb-ft (N•m)		<u>Turbine Torque</u> lb-ft (N•m)	<u>Speeds</u>
	gross	net	gross	net	net	
General	760 (567)	710 (529)	2500 (3390)	2270 (3078)	3790 (5139)	Engine Speeds <u>Full Load Governed Speed</u> Maximum 2500 rpm Minimum 1900 rpm <u>Idle Speed in Drive</u> Minimum 550 rpm
Ag Tractor	700 (522)	650 (485)	2000 (2712)	1860 (2522)	3340 (4528)	
Aircraft Rescue and Fire-Fighting (ARFF) Vehicle	1025 (764)	975 (727)	3300 (4474)	3000 (4068)	5200 (7050)	

3.3 6620 OFS / 6625 OFS MODEL

	<u>Input Power</u> hp (kW)		<u>Input Torque</u> lb-ft (N•m)		<u>Turbine Torque</u> lb-ft (N•m)	<u>Speeds</u>
	gross	net	gross	net	net	
Oil Field - General	760 (567)	710 (529)	2500 (3390)	2270 (3078)	3790 (5139)	Engine Speeds <u>Full Load Governed Speed</u> Maximum 2500 rpm Minimum 1900 rpm <u>Idle Speed in Drive</u> Minimum 550 rpm
Oil Field - Dual Mode	900 (671)	850 (634)	2750 (3729)	2300 (3118)	4000 (5423)	
Oil Field - Stationary Pump	900 (671)	850 (634)	2750 (3729)	2600 (3525)	4000 (5423)	

4.0 INPUT / OUTPUT RATINGS — 8000 SERIES MODELS

4.1 8610 ORS MODEL

	<u>Input Power</u>		<u>Input Torque</u>		<u>Turbine Torque</u>	<u>Speeds</u>
	hp (kW)	gross net	lb-ft (N•m)	gross net	lb-ft (N•m) net	
Hauling Applications	1050 (783)	975 (727)	3600 (4881)	3300 (4474)	5650 (7660)	<u>Engine Speeds</u> <u>Full Load Governed Speed</u> Maximum 2300 rpm Minimum 1800 rpm <u>Idle Speed in Drive</u> Minimum 550 rpm

4.2 8610 SP MODEL

	<u>Input Power</u>		<u>Input Torque</u>		<u>Turbine Torque</u>	<u>Speeds</u>
	hp (kW)	gross net	lb-ft (N•m)	gross net	lb-ft (N•m) net	
General	1050 (783)	975 (727)	3600 (4881)	3300 (4474)	5650 (7660)	<u>Engine Speeds</u> <u>Full Load Governed Speed</u> Maximum 2300 rpm Minimum 1800 rpm <u>Idle Speed in Drive</u> Minimum 550 rpm
Ag Tractor	850 (634)	775 (578)	3200 (4339)	2960 (4013)	5300 (7186)	

4.3 8610 OFS MODEL

	<u>Input Power</u>		<u>Input Torque</u>		<u>Turbine Torque</u>	<u>Speeds</u>
	hp (kW)	gross net	lb-ft (N•m)	gross net	lb-ft (N•m) net	
Oil Field	1200 (895)	1104 (823)	3600 (4881)	3300 (4474)	5966 (8089)	<u>Engine Speeds</u> <u>Full Load Governed Speed</u> Maximum 2300 rpm Minimum 1800 rpm <u>Idle Speed in Drive</u> Minimum 550 rpm

5.0 INPUT / OUTPUT RATINGS — 9000 SERIES MODELS

5.1 9610 ORS MODEL

	<u>Input Power</u> hp (kW)		<u>Input Torque</u> lb-ft (N•m)		<u>Turbine Torque</u> lb-ft (N•m)	<u>Speeds</u>
	gross	net	gross	net	net	
Hauling Applications	1350 (1007)	1250 (933)	4000 (5423)	3700 (5017)	6000 (8135)	<u>Engine Speeds</u> <u>Full Load Governed Speed</u> Maximum 2100 rpm Minimum 1800 rpm <u>Idle Speed in Drive</u> Minimum 550 rpm

5.2 9610 SP MODEL

	<u>Input Power</u> hp (kW)		<u>Input Torque</u> lb-ft (N•m)		<u>Turbine Torque</u> lb-ft (N•m)	<u>Speeds</u>
	gross	net	gross	net	net	
General	1350 (1007)	1250 (933)	4000 (5423)	3700 (5017)	6000 (8135)	<u>Engine Speeds</u> <u>Full Load Governed Speed</u> Maximum 2100 rpm Minimum 1800 rpm <u>Idle Speed in Drive</u> Minimum 550 rpm

5.3 9610 OFS MODEL

	<u>Input Power</u> hp (kW)		<u>Input Torque</u> lb-ft (N•m)		<u>Turbine Torque</u> lb-ft (N•m)	<u>Speeds</u>
	gross	net	gross	net	net	
Oil Field	1350 (1007)	1250 (933)	4000 (5423)	3700 (5017)	6000 (8135)	<u>Engine Speeds</u> <u>Full Load Governed Speed</u> Maximum 2100 rpm Minimum 1800 rpm <u>Idle Speed in Drive</u> Minimum 550 rpm

5.4 9823 OFS MODEL

	<u>Input Power</u> hp (kW)		<u>Input Torque</u> lb-ft (N•m)		<u>Turbine Torque</u> lb-ft (N•m)	<u>Speeds</u>
	gross	net	gross	net	net	
Oil Field	2350 (1752)	2250 (1678)	6300 (8542)	6100 (8270)	7550 (10,235)	Engine Speeds <u>Full Load Governed Speed</u> Maximum 2100 rpm Minimum 1800 rpm <u>Idle Speed in Drive</u> Minimum 550 rpm

5.5 9826 OFS MODEL

	<u>Input Power</u> hp (kW)		<u>Input Torque</u> lb-ft (N•m)		<u>Turbine Torque</u> lb-ft (N•m)	<u>Speeds</u>
	gross	net	gross	net	net	
Oil Field	2600 (1939)	2500 (1864)	7750 (10,507)	7750 (10,507)	8000 (10,847)	Engine Speeds <u>Full Load Governed Speed</u> Maximum 2100 rpm Minimum 1800 rpm <u>Idle Speed in Drive</u> Minimum 550 rpm

5.6 9832 OFSD MODEL

	<u>Input Power</u> hp (kW)		<u>Input Torque</u> lb-ft (N•m)		<u>Turbine Torque</u> lb-ft (N•m)	<u>Speeds</u>
	gross	net	gross	net	net	
Oil Field	1750 (1305)	1600 (1193)	5250 (7118)	4870 (6603)	7000 (9491)	Engine Speeds <u>Full Load Governed Speed</u> Maximum 2100 rpm Minimum 1800 rpm <u>Idle Speed in Drive</u> Minimum 550 rpm

5.7 9832 OFS MODEL

	<u>Input Power</u> hp (kW)		<u>Input Torque</u> lb-ft (N•m)		<u>Turbine Torque</u> lb-ft (N•m)	<u>Speeds</u>
	gross	net	gross	net	net	
Oil Field	2600 (1939)	2500 (1864)	7750 (10,507)	7750 (10,507)	8000 (10,847)	Engine Speeds <u>Full Load Governed Speed</u> Maximum 2100 rpm Minimum 1800 rpm <u>Idle Speed in Drive</u> Minimum 550 rpm

5.8 9832 OFSI MODEL

	<u>Input Power</u>		<u>Input Torque</u>		<u>Turbine Torque</u>	<u>Speeds</u>
	hp (kW)	gross net	lb-ft (N•m)	gross net	lb-ft (N•m) net	
Oil Field	3200 (2386)	3000 (2237)	9000 (12,200)	8600 (11,660)	9400 (12,745)	<u>Engine Speeds</u> <u>Full Load Governed Speed</u> Maximum 2100 rpm Minimum 1800 rpm <u>Idle Speed in Drive</u> Minimum 550 rpm

REVISION HISTORY

January 5, 2021

- Section 5.4, added ratings for 9832 OFSD, removed model 9817 OFS

November 12, 2019

- Section 5.7, update ratings for 9832 OFS
- Section 5.8, add new model 9832 OFSi and ratings.

January 25, 2016

- Section 1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 3.1, 3.2, 3.3, 4.1, 4.2, 4.3, 5.1, 5.2, 5.3, Update transmission model designation.
- Section 5.7, Add 9832 OFS.

February 25, 2014

- Section 5.4, 5.5, 5.6, Update transmission model number. Delete section 5.7.

May 9, 2013

- Section 4.1 H8610 Model: Correct metric turbine torque rating from 7647 Nm to 7660 Nm

October 3, 2012

- Added gross ratings
- Reorganized to use English units as default values
- Added S9825 model

January 19, 2012

- Deleted 5610 and 6610 models.

August 12, 2010

- Revised cover page format.

May 10, 2010

- Added ratings for new models H5620, M5620 and S5620
- Added ratings for new models H6620, M6620 and S6620