

ALLISON AUTOMATICS

Off-Highway Series: Ratings and Specifications

Rugged, Reliable and Durable

Allison designs, develops and manufactures the world’s widest range of advanced, powershifting, fully automatic transmissions for on- and off-road applications.

Designed to match the ratings of current engines and beyond as emissions standards change, Allison’s Off-Highway Series transmissions provide superior productivity, durability and safety. The 5000, 6000, 8000 and 9000 Off-Highway Series transmissions are used in applications requiring 500 to 2600 gross horsepower (373 kW to 1939 kW) engines. Vehicle applications are diverse and include oil field pumping, fracturing and service rigs, off-highway trucks, agricultural tractors, and winch units such as those on derricks and cranes.

Allison Off-Highway Series transmissions provide the ultimate choice for off highway applications.

- Up to 8 available forward speeds
- Up to 2 reverse speeds
- Optional hydraulic retarder
- PTO-provision
- Optional dropbox
- Optional parking brake or provision for customer supplied parking brake

RATINGS

Model	Vocation	Gross Input Power hp (kW)	Gross Input Torque lb-ft (N•m)	Turbine Torque Net lb-ft (N•m)
H5620 Straight-Thru	Hauling Applications	600 (447)	1875 (2542)	3475 (4711)
H5620 Dropbox	Hauling Applications	600 (447)	1875 (2542)	3475 (4711)
M5620 Straight-Thru	General, Oil Field, Crane Carrier	600 (447)	1875 (2542)	3475 (4711)
	Agricultural Tractor	500 (373)	1650 (2237)	3120 (4230)
	ARFF Vehicle	750 (559)	2500 (3390)	3790 (5139)
M5620 Dropbox	General, Oil Field, Crane Carrier, ARFF Vehicle	600 (447)	1875 (2542)	3475 (4711)
S5620 Straight-Thru	General, Manual Shift (Non-Oil Field)	600 (447)	1875 (2542)	3475 (4711)
	Oil Field	675 (503)	2150 (2915)	3475 (4711)
	Agricultural Tractor	500 (373)	1650 (2237)	3120 (4230)
S5620 Dropbox	General, Oil Field	600 (447)	1875 (2542)	3475 (4711)
H6620	Hauling Applications	760 (567)	2500 (3390)	3790 (5139)
M6620	General	760 (567)	2500 (3390)	3790 (5139)
	Oil Field	900 (671)	2750 (3729)	4000 (5423)
	ARFF Vehicle	1025 (764)	3300 (4474)	5200 (7050)
	Agricultural Tractor	700 (522)	2000 (2712)	3340 (4528)
S6620	Stationary Applications	760 (567)	2500 (3390)	3790 (5139)
	Oil Field	900 (671)	2750 (3729)	4000 (5423)
H8610	Hauling Applications	1050 (783)	3600 (4881)	5650 (7647)
M8610	General	1050 (783)	3600 (4881)	5650 (7647)
	Oil Field	1200 (895)	3600 (4881)	5966 (8089)
	Agricultural Tractor	850 (634)	3200 (4339)	5300 (7186)
S8610	Oil Field	1200 (895)	3600 (4881)	5966 (8089)
H9610	Hauling Applications	1350 (1007)	4000 (5423)	6000 (8135)
M9610	Mobile Equipment	1350 (1007)	4000 (5423)	6000 (8135)
S9610	Stationary Equipment	1350 (1007)	4000 (5423)	6000 (8135)
9817 OFS	Oil Field	1750 (1305)	5250 (7118)	7000 (9491)
9823 OFS	Oil Field	2350 (1752)	6300 (8542)	7550 (10235)
9826 OFS	Oil Field	2600 (1939)	7750 (10507)	8000 (10847)

GEAR RATIOS - Torque Converter Multiplication Not Included											Ratio Coverage	
Model	First	Second	Third	Fourth	Fifth	Sixth	Seventh	Eighth	Reverse 1	Reverse 2	Forward	Dropbox
5600	4.00 : 1	2.68 : 1	2.01 : 1	1.35 : 1	1.00 : 1	0.67 : 1			-5.15 : 1	-3.46 : 1	5.97	1.00 : 1
6600	4.00 : 1	2.68 : 1	2.01 : 1	1.35 : 1	1.00 : 1	0.67 : 1			-5.15 : 1	-3.46 : 1	5.97	
8600	4.21 : 1	2.32 : 1	1.69 : 1	1.31 : 1	1.00 : 1	0.73 : 1			-5.75 : 1		5.97	
9600	4.24 : 1	3.05 : 1	2.32 : 1	1.67 : 1	1.00 : 1	0.72 : 1			-5.75 : 1	-4.13 : 1	5.89	
9800 OFS	3.75 : 1	2.69 : 1	2.20 : 1	1.77 : 1	1.58 : 1	1.27 : 1	1.00 : 1	0.72 : 1			5.21	

TORQUE CONVERTER SPECIFICATIONS		
Model	Torque Converter	Stall Torque Ratio
5600,	TC-580	2.89
6600	TC-680	2.08
	TC-682	1.77
	TC-683	1.85
8600	TC-840	2.26
	TC-860	2.32
	TC-880	2.20
	TC-890	1.86
	TC-1070	1.78
	TC-1078	1.84
9600,	TC-1060	1.86
9800 OFS	TC-1070	1.78
	TC-1078	1.84
	TC-1080	1.61

PHYSICAL DESCRIPTION			
Model	Length in (mm)	Depth in (mm)	Dry Weight lb (kg)
5600			
BASIC MODEL	43.1 (1095)	17.0 (433)	2200 (998)
WITH RETARDER	46.6 (1182)	17.0 (433)	2365 (1073)
WITH DROP BOX	46.7 (1185)	26.7 (678)	2750 (1247)
WITH DROP BOX AND RETARDER	50.1 (1273)	26.7 (678)	2915 (1322)
6600			
BASIC MODEL	43.1 (1095)	20.1 (511)	2260 (1025)
WITH RETARDER	46.6 (1182)	20.1 (511)	2425 (1100)
8600, 9600			
BASIC MODEL	55.5 (1411)	20.9 (530)	3700 (1678)
9817 OFS, 9823 OFS			
BASIC MODEL	56.5 (1435)	20.9 (530)	3790 (1719)
9826 OFS			
BASIC MODEL	56.5 (1435)	20.9 (530)	3890 (1765)

POWER TAKE-OFF PROVISION - Continuous Operation						
Model	Mounting pad positions viewed from rear	Mount	Drive Gear Rating hp (kW)	PTO Drive Gear	Power Capability	Drive
5600, 6600	5 O'CLOCK	SIDE MOUNT	200 (149)	46 TOOTH	INTERMITTENT	ENGINE
	5 O'CLOCK	SIDE MOUNT	125 (93)	46 TOOTH	CONTINUOUS	ENGINE
	12 O'CLOCK	TOP MOUNT	200 (149)	46 TOOTH	INTERMITTENT	ENGINE
	12 O'CLOCK	TOP MOUNT	125 (93)	46 TOOTH	CONTINUOUS	ENGINE
8600, 9600, 9800 OFS	5 O'CLOCK	SIDE MOUNT	400 (298)	59 TOOTH	INTERMITTENT	ENGINE
	5 O'CLOCK	SIDE MOUNT	300 (224)	59 TOOTH	CONTINUOUS	ENGINE
	12 O'CLOCK	TOP MOUNT	400 (289)	59 TOOTH	INTERMITTENT	ENGINE
	12 O'CLOCK	TOP MOUNT	300 (224)	59 TOOTH	CONTINUOUS	ENGINE

Information and specifications subject to change without notice or obligation.

Specifications developed for you, trust Allison

Allison Transmission - the automatic experience with an unrivaled combination of Quality, Reliability, Durability, Vocational Value and Customer Service.

FIND OUT MORE

For additional information, contact your Allison Transmission representative.

www.allisontransmission.com

