



Vocational Model Guide

Version 1.20.26

Innovations that Move the World Forward

Since 1915, Allison Transmission has transformed innovation into action: delivering reliable, durable and highly productive solutions that help our customers work more efficiently and stay focused on what matters most.

Driven by dedicated team members, advanced facilities and an unwavering commitment to quality, durability, reliability and sustainability, we're moving ourselves and our industry forward—and *Improving the Way the World Works.*

Conventional Transmissions



1000 Series™
2000 Series™



3000 Series™



4000 Series™



6000 Series™



8000 Series™



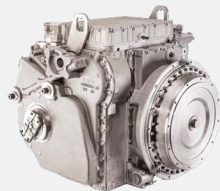
9000 Series™



FracTran®

Defense

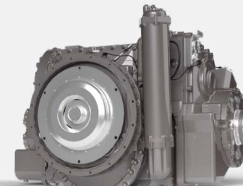
Tracked Solutions



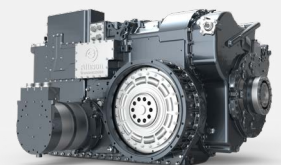
X200 Series™



3040 MX™



X1100 Series™



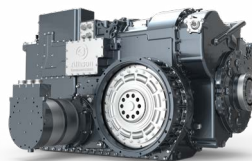
eGen Force™

Hybrid + Electric

Electrified Propulsion Solutions



eGen Flex®



eGen Force™

Features + Advantages

Allison Transmission is the world's largest manufacturer of commercial-duty automatic transmissions and also produces electric hybrid and fully electric propulsion systems. By designing and creating performance-driven products and features in applications ranging from transit to defense, we give customers worldwide the innovations they need when they need them.

Reliability

Proven over billions of miles, our dependable, fully automatic transmissions reduce downtime and help you get more work done.

Life Cycle Value

We build Allison Automatics to last. Once you factor in all life cycle costs, along with higher productivity, Allison-equipped vehicles cost less to operate in most applications.

Fully Automatic Advantage

Our patented Continuous Power Technology™ delivers smoother, seamless, full-power shifts and superior acceleration, startability and vehicle control.

Allison Torque Converter

Our torque converter multiplies peak engine torque and delivers more power to the wheels, improving performance, acceleration and operational flexibility.

Driver Benefits

By improving handling, maneuverability and ease of operation, Allison-equipped vehicles boost driver comfort, alertness and retention.

Performance + Productivity

Allison Automatics perform better. Manual or automated manual transmissions lose power and torque each time they shift, resulting in reduced productivity and less ground traveled.

Fuel Utilization

Allison fully automatic transmissions offer the best combination of fuel economy and productivity. To get the most benefit, our innovative FuelSense® 2.0 with DynActive® Shifting packages increase fuel economy for specific fleet and vehicle needs. Allison is also the preferred transmission for alternative fuel applications, such as natural gas.

Customer Support

From our headquarters in Indianapolis, Indiana, USA, to our manufacturing plants in Hungary and India, to approximately 1,600 Allison Authorized Distributors and Dealers around the globe, customers are never far from the products, training, service and support they demand.

Easy Maintenance

With extended periods between maintenance and a proven track record, an Allison automatic transmission keeps your fleet on the road while reducing total cost of ownership.

	Bus Series™	Emergency Vehicle Series™	Highway Series™	Motorhome Series™	Off Road Series™	Oil Field Series™	Pupil Transport/ Shuttle Series™	Regional Haul Series™	Rugged Duty Series™	Specialty Series™	Truck RV Series™
Torque Management	✓	✓	✓	✓			✓	✓	✓	✓	✓
High-Density Start/Stop Calibrations	✓		✓				✓				
Prognostics	✓	✓	✓	✓			✓	✓	✓	✓	✓
FuelSense® 2.0	✓		✓	✓			✓	✓	✓	✓	✓
xFE	Optional		Optional	Optional			Optional		Optional		
Oil Level Sensor	✓	✓	✓	✓			✓	✓	✓		
2nd Reverse		✓			✓	✓			✓	✓	
Deep Oil Pan/Sump		✓	✓	✓			✓		✓		
Additional Speeds			✓						✓		
PTO	✓	✓		✓	✓	✓		✓	✓	✓	✓
PTO Delete									Optional		
Park Pawl	✓	✓	✓	✓			✓		✓	✓	
Dual PTO	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Retarder	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Allison Product Specifications



Detailed Specs for Proven Reliability

Whatever the series or model, learning the most up-to-date specifications available for your Allison fully automatic transmission is key to selecting the propulsion solution that best meets your needs.

- Our 1000 and 2000 Series™ transmissions are appropriate for light- and medium-duty vehicles.
- The 3000 and 4000 Series™ transmissions are designed for medium- and heavy-duty vehicles.
- 6000, 8000 and 9000 Series™ transmissions are compatible with heavy-duty applications.

1000/4000 Series Specifications

Gear Ratios Torque Converter Multiplication Not Included

Model	Vocational Models											First	Second	Third	Fourth	Fifth	Sixth	Seventh	Reverse	2nd Reverse
	BUS	EVS	HS	MH	OFS	ORS	PTS	RHS	RDS	SP	TRV									
1000 ¹ /1350 ¹ /2100 ¹ /2200 ¹ /2300 ¹ /2350 ¹ /B 210 ¹ /B 220 ¹	✓	✓	✓	✓			✓		✓	✓		3.10:1	1.81:1	1.41:1	1.00:1	0.71:1	0.61:1	N/A	-4.49:1	N/A
2500 ¹ /2550 ¹ /2575		✓	✓	✓			✓		✓	✓		3.51:1	1.90:1	1.44:1	1.00:1	0.74:1	0.64:1	N/A	-5.09:1	N/A
3000/3200/B 295/B 300/B 400	✓		✓	✓		✓	✓		✓	✓	✓	3.46:1	1.86:1	1.41:1	1.00:1	0.75:1	0.65:1	N/A	-5.03:1	N/A
B 3400 xFE™/3414	✓							✓				3.49:1	2.03:1	1.47:1	1.00:1	0.69:1	0.59:1	N/A	-3.80:1	N/A
3500		✓			✓	✓			✓	✓		4.59:1	2.25:1	1.54:1	1.00:1	0.75:1	0.65:1	N/A	-5.00:1	N/A
3700										✓		6.93:1	4.18:1	2.24:1	1.69:1	1.20:1	0.90:1	0.78:1	-6.03:1	N/A
4000/4200/B 500	✓	✓	✓	✓		✓			✓	✓	✓	3.51:1	1.91:1	1.43:1	1.00:1	0.74:1	0.64:1	N/A	-4.80:1	N/A
4430/4500/4600		✓	✓	✓	✓	✓			✓	✓		4.70:1	2.21:1	1.53:1	1.00:1	0.76:1	0.67:1	N/A	-5.55:1	N/A
4700/4750/4800/4850/4900		✓			✓	✓			✓	✓		7.63:1 ²	3.51:1	1.91:1	1.43:1	1.00:1	0.74:1	0.64:1	-4.80:1	-17.12:1 ³
4870/4970		✓			✓				✓	✓		4.70:1	3.30:1	2.21:1	1.53:1	1.00:1	0.76:1	0.67:1	-5.55:1	-2.42:1

1 - Available with xFE 2 - Manually selected first gear 3 - SEM/LRTP or LRTP only is required

Standard Power Take-off Continuous Operation

Model	Vocational Models											Mounting Pad Positions Viewed from Rear	Drive Gear Rating with One PTO	Drive Gear Rating with Two PTOs	Drive
	BUS	EVS	HS	MH	OFS	ORS	PTS	RHS	RDS	SP	TRV		lb-ft (N•m)	lb-ft (N•m)	
Side/Side - 1000/1350/2100/2200/2300/2500/2550/2700/2750/B 210/B 220	✓ ¹	✓		✓ ¹					✓	✓ ¹		3 and 9 o'clock	250 (339)	200 ² (271) ²	Turbine
Side/Side - 3000/3200 ¹ /3414/3500/B 300 ¹ /B 400 ¹ /B 3400xFE ¹	✓	✓			✓	✓		✓	✓		✓	4 and 8 o'clock	485 (660)	685 ^{3,4} (930) ^{3,4}	Engine
Top/Side - 3500 ⁵		✓										1 and 8 o'clock	670 (910)	685 ^{3,4} (930) ^{3,4}	Engine
Top/Side - 3000/3200/3414/3500 ⁵					✓	✓		✓	✓			1 and 8 o'clock	485 (660)	685 ^{3,4} (930) ^{3,4}	Engine
3700										✓		8 o'clock	485 (660)	N/A	Engine
4000/4200 ¹ /4430/4500/4600/4700/4800/4850/4900/4970/B 500 ¹	✓	✓		✓	✓	✓			✓	✓	✓	1 and 8 o'clock	685 (930)	1175 ^{3,4} (1595) ^{3,4}	Engine

1 - PTO-delete option available 2 - Rating per PTO 3 - Total on the drive gear 4 - Minimum 600 rpm idle speed required when dual PTOs are used simultaneously 5 - Special order. Please contact Allison Representative for more information

Engine Speeds

Model	Vocational Models											Full Load Governed Speed Min-Max	Idle Speed in Drive Min-Max	Output Shaft Speed
	BUS	EVS	HS	MH	OFS	ORS	PTS	RHS	RDS	SP	TRV			
												rpm	rpm	rpm
1000/1350/2100/2200/2350		✓	✓	✓			✓		✓	✓		2200-3800	500-820	5000
1700/1750/2700/2750		✓	✓	✓			✓		✓			2200-3800	500-820	5000
2300			✓				✓		✓			2200-5000 ¹	500-820	5000
2500/2550/2570/B 210/B 220	✓	✓	✓	✓			✓		✓	✓		2200-3800	500-820	4500
B 295	✓											1900-2800	500-800	3600 ²
3000/B 300/B 400/B 3400 xFE™	✓	✓	✓	✓		✓	✓		✓	✓	✓	1900-2800	500-800	3600 ²
3200						✓				✓	✓	1900-2800	500-800	3600 ²
3414								✓				1900-2800	500-800	3600 ²
3500		✓			✓	✓			✓	✓		1900-2800	500-800	3600 ²
3700										✓		1900-2800	500-800	N/A
4000/4200/B 500	✓	✓	✓	✓		✓			✓	✓	✓	1700-2300	500-800	N/A
4430					✓	✓				✓		1700-2300	500-800	N/A
4500		✓	✓		✓	✓			✓	✓		1700-2300	500-800	N/A
4600/4700/4750		✓			✓	✓				✓		1700-2300	500-800	N/A
4800/4850/4870		✓			✓	✓				✓		1700-2300	500-800	N/A
4900/4970		✓							✓	✓		1700-2300	500-800	N/A

1 - Engines with full-load governed speed greater than 3800 rpm require Application Engineering review 2 - Retarder equipped models only
3 - 2400 rpm for Military Combat vehicle applications

Torque Converter Specifications

Model	Vocational Models											Torque Converter	Nominal Stall Torque
	BUS	EVS	HS	MH	OFS	ORS	PTS	RHS	RDS	SP	TRV		
1000 + 2000 Series™ Models												TC-210	2.05
	✓	✓	✓	✓			✓		✓	✓		TC-211 ¹	1.19
												TC-221 ¹	1.73
												TC-222 ¹	1.58
3000 Series™ Models												TC-411	2.71
												TC-413	2.44
												TC-415	2.35
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	TC-417	2.20
												TC-418 ¹	1.98
												TC-419	2.02
												TC-421 ²	1.77
4000 Series™ Models												TC-521	2.42
												TC-531	2.34
	✓	✓	✓	✓	✓	✓			✓	✓	✓	TC-541 ²	1.9
												TC-551	1.79
												TC-561 ²	1.58
												TC-571 ²	1.62

1 - Available with low rate damper 2 - Available with high rate damper

Optional Retarder Provision Integral, Hydraulic Type

Model	Vocational Models											Level	Torque Capacity	Power Capacity
	BUS	EVS	HS	MH	OFS	ORS	PTS	RHS	RDS	SP	TRV			
													lb-ft (N·m)	hp (kw)
3000 Series™ Models ²												High	1600 (2170)	600 (447)
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Medium	1300 (1763)	500 (373)
												Low	1100 (1490)	400 (298)
												Very Low	811 (1100)	N/A
												Ultra Low	553 (750)	N/A
4000 Series™ Models ¹												High	2000 (2712)	600 (447)
	✓	✓	✓	✓	✓	✓			✓	✓	✓	Medium	1600 (2170)	600 (447)
												Low	1300 (1763)	500 (373)

1 - High and low now available on all 4000 Series 7 speeds 2 - Excluding 3700 SP

1000/4000 Series Specifications

Physical Description

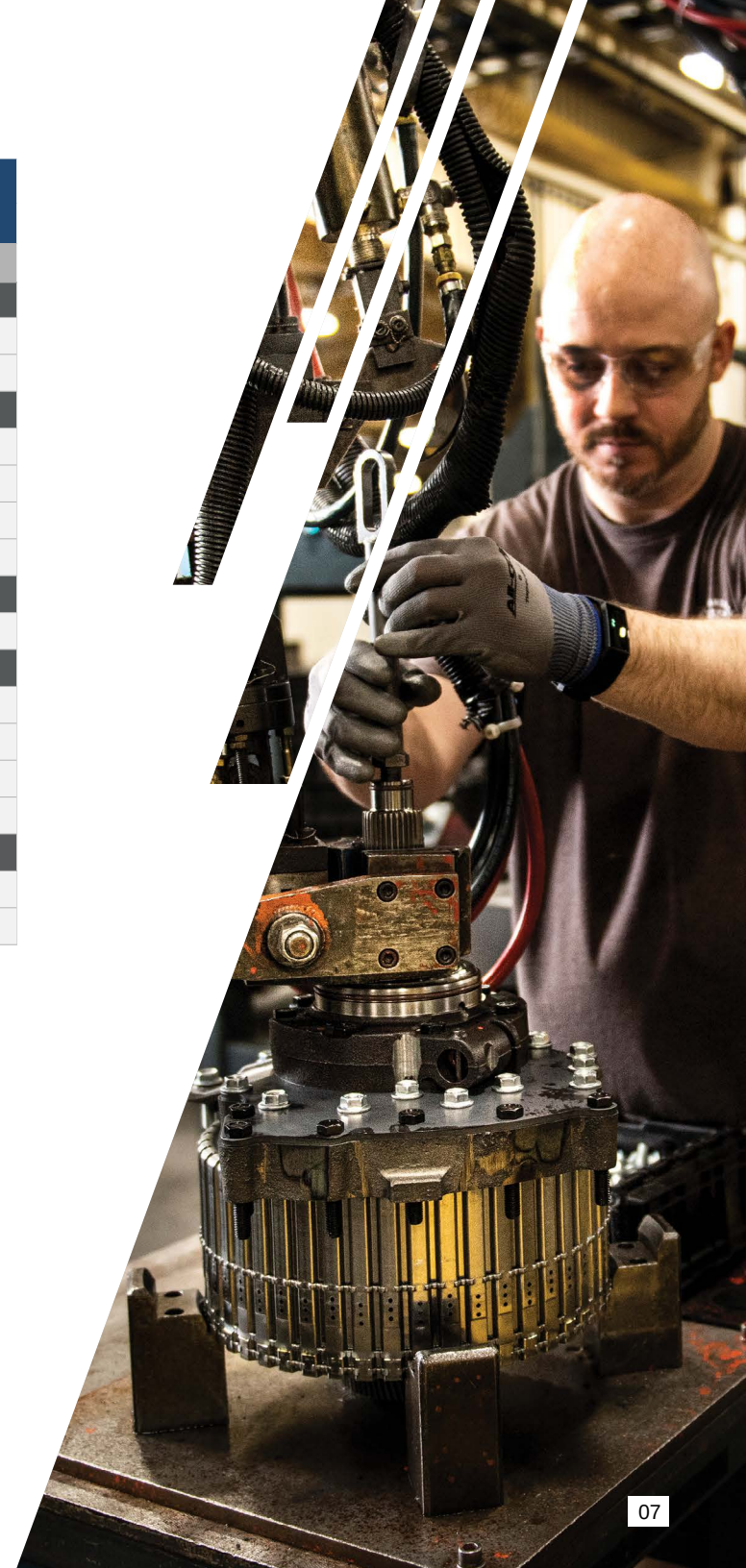
Model	Vocational Models											Length ¹	Depth ² w/ Deep Oil Pan/Sump	Depth ² w/ Shallow Oil Pan/Sump	Dry Weight
	BUS	EVS	HS	MH	OFS	ORS	PTS	RHS	RDS	SP	TRV	in (mm)	in (mm)	in (mm)	lbs (kg)
1000/2000³/B 210/B 220															
SAE No. 3 Mounting	✓	✓	✓	✓			✓		✓	✓		28.02 (711.7)	11.22 (285.1)	10.71 (272.0)	323 (146.5)
SAE No. 2 Mounting	✓	✓	✓	✓			✓		✓	✓		28.40 (721.2)	11.22 (285.1)	10.71 (272.0)	323 (146.5)
3000⁴/3414/B 300/B 400/B 3400 xFE™															
Basic Model	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	28.30 (718.7)	12.90 (327.7)	11.13 (282.6)	535 (243)
With PTO only	✓	✓		✓	✓	✓		✓	✓	✓	✓	32.50 (825.4)	12.90 (327.7)	11.13 (282.6)	575 (261)
With Retarder only	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	28.29 (718.5)	12.90 (327.7)	11.13 (282.6)	615 (279)
With PTO & Retarder	✓	✓		✓	✓	✓		✓	✓	✓	✓	32.49 (825.2)	12.90 (327.7)	11.13 (282.6)	655 (297)
3700															
Basic Model										✓		51.58 (1310.3)	21.90 (555.0)	N/A	1170 (531)
4000⁵/4430⁶/4500/B 500															
Basic Model	✓	✓	✓	✓		✓			✓	✓	✓	30.54 (775.7)	14.75 (374.7)	13.29 (337.6)	831 (377)
With PTO only	✓	✓		✓		✓			✓	✓	✓	33.41 (848.7)	14.75 (374.7)	13.29 (337.6)	893 (405)
With Retarder only	✓	✓	✓	✓		✓			✓	✓	✓	30.54 (775.7)	14.75 (374.7)	13.29 (337.6)	906 (411)
With PTO & Retarder	✓	✓		✓	✓	✓			✓	✓	✓	33.42 (848.8)	14.75 (374.7)	13.29 (337.6)	968 (439)
4700/4750/4800/4850/4870/4850/4900/4950															
Basic Model		✓							✓	✓		40.61 (1031.5)	14.75 (374.7)	N/A	1087 (493)
With PTO only		✓							✓	✓		43.49 (1104.5)	14.75 (374.7)	N/A	1149 (521)
With Retarder only		✓							✓	✓		40.61 (1031.5)	14.75 (374.7)	N/A	1162 (527)
With PTO & Retarder		✓			✓				✓	✓		43.49 (1104.5)	14.75 (374.7)	N/A	1224 (555)

1 - Length measured from flywheel housing to end of output shaft 2 - Depth measured below transmission center line 3 - 2000 SP - only 2000 model available with shallow oil pan 4 - 3000 HS, RDS, PTS - Available with deep oil pan only
5 - 4000 HS, RDS, SP - Available with deep oil pan only 6 - 4430 is an SP model only - available with deep oil pan only

Oil System

Model	Vocational Models											Capacity ¹
	BUS	EVS	HS	MH	OFS	ORS	PTS	RHS	RDS	SP	TRV	quarts (liters)
1000/2000 ² /B 210/B 220 (main circuit filter - spin-on canister)												
Standard Deep Oil Sump	✓	✓	✓	✓			✓		✓	✓		13.7 (13.0)
Shallow Oil Sump	✓	✓	✓	✓			✓		✓	✓		11.6 (11.0)
3000 ³ /3414/B 295/B 300 ³ /B 400 ³ /B 3400 xFE™ ³												
Deep Oil Sump w/ PTO	✓	✓		✓	✓	✓		✓	✓	✓	✓	29.75 (28.1)
Deep Oil Sump w/o PTO	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	29.0 (27.4)
Shallow Oil Sump w/ PTO	✓	✓		✓						✓	✓	26.75 (25.3)
Shallow Oil Sump w/o PTO	✓	✓		✓						✓	✓	26.0 (24.6)
3700 ³												
Deep Oil Sump w/ PTO										✓		39.0 (37.0)
4000 ³ /4430 ^{3,4} /4500 ³ /B 500 ³												
Deep Oil Sump w/ PTO	✓	✓		✓	✓	✓			✓	✓	✓	51.0 (48.0)
Deep Oil Sump w/o PTO	✓	✓	✓	✓	✓	✓			✓	✓	✓	48.0 (45.0)
Shallow Oil Sump w/ PTO		✓		✓						✓	✓	43.0 (41.0)
Shallow Oil Sump w/o PTO	✓	✓		✓						✓	✓	40.0 (38.0)
4700 ³ /4750 ³ /4800 ³ /4850 ^{3,4} /4870 ³ /4900 ³ /4970 ³												
Deep Oil Sump w/ PTO		✓			✓				✓	✓		54.0 (51.0)
Deep Oil Sump w/o PTO		✓			✓				✓	✓		51.0 (48.0)

1 - Transmission only. Does not include cooler, hoses or fittings. 2 - 2000 SP - 2100 PTS, 2100 PTS xFE, and 2200 PTS offer shallow pan availability 3 - Main and lube circuit filter are integral; electronic oil sensors are standard 4 - 4430 is an SP model only - available only with deep oil pan



Allison Product Specifications



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- The 3000 and 4000 Series™ transmissions are designed for medium- and heavy-duty vehicles.
- 6000, 8000 and 9000 Series™ transmissions are compatible with heavy-duty applications.

6000/9000 Series + FracTran® Specifications

Gear Ratios Torque Converter Multiplication Not Included

Model	Vocational Models				First	Second	Third	Fourth	Fifth	Sixth	Seventh	Eighth	Reverse	2nd Reverse
	OFS	OFS-D	ORS	SP										
6620	✓		✓	✓	4.00:1	2.68:1	2.01:1	1.35:1	1.00:1	0.67:1	N/A	N/A	-5.15:1	-3.46:1
6625			✓	✓	4.00:1	2.68:1	2.01:1	1.35:1	1.00:1	0.67:1	N/A	N/A	-5.15:1	-3.46:1
8610	✓		✓	✓	4.24:1	2.32:1	1.69:1	1.31:1	1.00:1	0.73:1	N/A	N/A	-5.75:1	N/A
9610			✓	✓	4.24:1	3.05:1	2.32:1	1.67:1	1.00:1	0.72:1	N/A	N/A	-5.75:1	-4.13:1
9832	✓	✓			3.75:1	2.69:1	2.20:1	1.77:1	1.58:1	1.27:1	1.00:1	0.72:1	N/A	N/A
FracTran® CR	✓				3.82:1	2.80:1	2.50:1	2.10:1	1.83:1	1.54:1	1.36:1	1.00:1	N/A	N/A
FracTran® DR	✓				4.87:1	3.57:1	2.78:1	2.41:1	2.04:1	1.77:1	1.36:1	1.00:1	N/A	N/A

Standard Power Take-off Continuous Operation

Model	Vocational Models				Mounting Pad Positions Viewed from Rear	Mounting Pad Positions Viewed from Rear	Drive Gear Rating w/ Intermittent PTO	Drive Gear Rating with Continuous PTO
	OFS	OFS-D	ORS	SP			lb-ft (N·m)	lb-ft (N·m)
6620	✓		✓	✓	5 o'clock	12 o'clock	500 (678)	313 (424)
6625			✓	✓	5 o'clock	12 o'clock	500 (678)	313 (424)
8610	✓		✓	✓	5 o'clock	12 o'clock	1000 (1356)	750 (1017)
9610			✓	✓	5 o'clock	12 o'clock	1000 (1356)	750 (1017)
9832	✓	✓			5 o'clock	12 o'clock	1000 (156)	750 (1017)
FracTran®	✓				5 o'clock	10 o'clock	1000 (1356)	1000 (1356)

Engine Speeds

Model	Vocational Models				Full Load Governed Speed Min-Max	Idle Speed in Drive Min-Max	Output Shaft Speed
	OFS	OFS-D	ORS	SP			
					rpm	rpm	rpm
6620	✓		✓	✓	1900 - 2300	550	N/A
6625			✓	✓	1900 - 2300	550	N/A
8610	✓		✓	✓	1800 - 2300	550	N/A
9610			✓	✓	1800 - 2100	550	N/A
9832	✓	✓			1800 - 2100	550	N/A
FracTran®	✓				1800 - 2100	650	N/A

Optional Retarder Provision Integral, Hydraulic Type

Model	Vocational Models				Torque Capacity	Power Capacity
	OFS	OFS-D	ORS	SP	lb-ft (N·m)	hp (kW)
6620	✓		✓	✓	1500 (2034)	600 (447)
6625			✓	✓	1500 (2034)	600 (447)
8610	✓		✓	✓	3451 (4679)	1380 (1029)
9610			✓	✓	4152 (5630)	1660 (1238)
9832	✓	✓			N/A	N/A
FracTran®	✓				N/A	N/A

Physical Description

Model	Vocational Models				Length w/o Retarder ¹	Length w/ Retarder ¹	Depth (Basic Model)	Depth w/ Direct Mount Filters	Dry Weight
	OFS	OFSD	ORS	SP					
					in (mm)	in (mm)	in (mm)	in (mm)	lbs (kg)
6620	✓		✓	✓	43.1 (1095)	46.6 (1182)	34.1 (866)	38.7 (982)	2260 (1025)
6625			✓	✓	43.1 (1095)	46.6 (1182)	34.1 (866)	38.7 (982)	2260 (1025)
8610	✓		✓	✓	55.5 (1411)	55.5 (1411)	35.3 (896)	42 (1067)	3700 (1678)
9610			✓	✓	55.5 (1411)	55.5 (1411)	35.3 (896)	42 (1067)	3700 (1678)
9832	✓	✓			56.5 (1435)	N/A	35.3 (896)	42 (1067)	3720 (1687)
FracTran® (SAE 0)	✓				63.9 (1622)	N/A	44.5 (1131)	49.7 (1263)	6510 (2953)
FracTran® (SAE 00)	✓				65.4 (1662)	N/A	44.5 (1131)	49.7 (1263)	6543 (2968)

1 - Length measured from flywheel housing to end of output shaft

Oil System

Model	Vocational Models				Capacity ¹
	OFS	OFSD	ORS	SP	
					quarts (liters)
6620	✓		✓	✓	72 (68)
6625			✓	✓	72 (68)
8610	✓		✓	✓	84 (79)
9610			✓	✓	84 (79)
9832	✓	✓			84 (79)
FracTran®	✓				160 (151)

Recommended oil types for all models are TES-353/TES-439/TES-781 approved.

1 - Transmission only. Does not include cooler, hoses or fittings

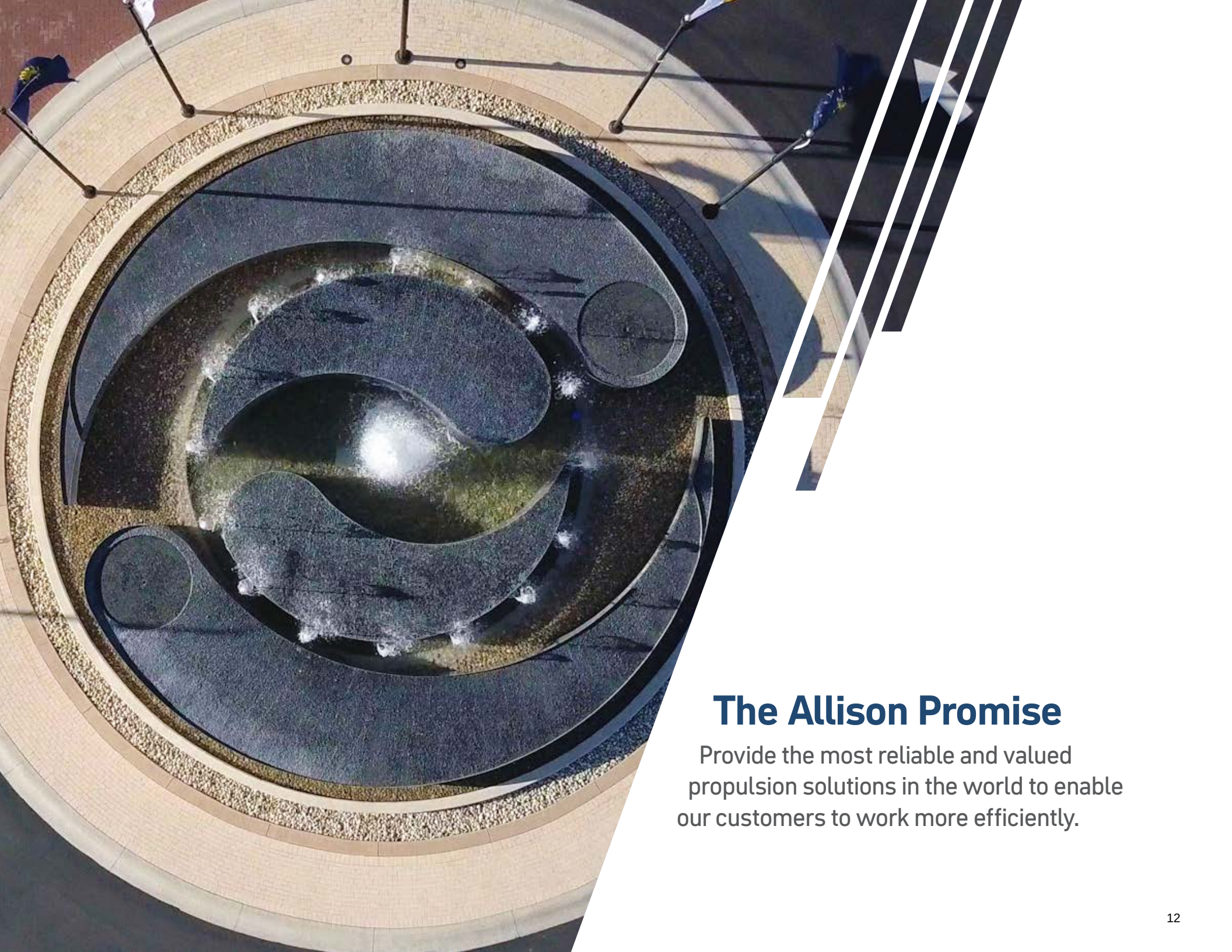
Torque Converter Specifications

Model	Vocational Models				Torque Converter	Nominal Stall Torque Ratio
	OFS	OFSD	ORS	SP		
6620	✓		✓	✓	TC-580	2.89
					TC-680 (retarder)	2.17
					TC-680 (no retarder)	2.08
					TC-682	1.77
					TC-683	1.85
6625			✓	✓	TC-580	2.89
					TC-680 (retarder)	2.17
					TC-680 (no retarder)	2.08
					TC-682	1.77
					TC-683	1.85
8610	✓		✓	✓	TC-860	2.33
					TC-880	2.2
					TC-890	1.86
					TC-1060	1.86
					TC-1070	1.78
					TC-1078	1.84
9610			✓	✓	TC-1060	1.86
					TC-1070	1.78
					TC-1078	1.84
					TC-1080	1.61
					TC-1090	1.31
9832	✓	✓			TC-1060	1.86
					TC-1070	1.78
					TC-1078	1.84
					TC-1080	1.61
					TC-1090	1.31
FracTran®	✓				TC-1260	1.86
					TC-1270	1.82



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**Whatever leaves this
shop over my name
must be of the finest
work possible.”**

- James A. Allison



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