Tap Into A Lower Cost Of Ownership With An Allison

Energy Market Applications

Allison Transmission®

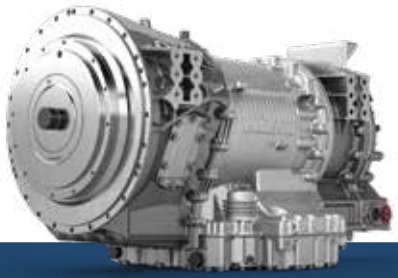
Lower Your **Total Cost Of Ownership**

While vehicles with manual and automated manual transmissions (AMTs) initially cost less than trucks equipped with Allison fully automatic transmissions, they may actually cost more over time. Allison Automatics have no mechanical clutch and the only regular maintenance required consists of routine oil and filter changes. This design reduces downtime, increasing your fleet's productivity and profits.

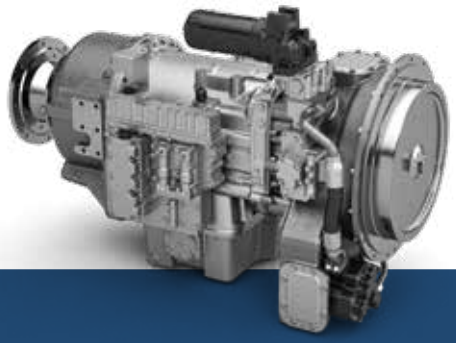
Allison vehicles bring more long-term value to your fleet thanks to the following features:

Proven Reliability—Allison Automatics provide unrivalled reliability and durability, protecting each vehicle's driveline and increasing vehicle uptime.

Low Maintenance—Our patented torque converter, there are no mechanical clutches to wear out. In addition, with Allison Automatics, periods between scheduled maintenance are extended.



Oil Field Series™ (OFS)



9800 Oil Field Series™ (OFS)

One Company, Multiple Applications

Workover Applications

Whether driving to the location or working on-site, Allison transmissions improve your productivity, giving you the quality, reliability and durability you demand in the toughest situations.

Pumping Applications

When pumping at a site, there is no room for error. Allison transmissions provide smooth, effortless, precise shifting. Whatever medium you're pumping, an Allison will provide the necessary gear ratios, exactly when you need them.

Fracturing Applications

When fracturing a well, demand a transmission you can count on. For decades, Allison equipment has been tested and proven in the field. With this track record of dependable performance, extended periods between maintenance, increased fuel economy and reduced training costs, Allison-equipped vehicles reduce your total cost of ownership.

Allison Features For Energy Market Applications

Shift Selector Transition

In certain applications, you may need the availability of two shift selectors on one rig. Allison electronic controls provide the ability to change from one shift selector to another, seamlessly. This offers more flexibility for you and your rigs when multiple controls are required.

Engine-Driven PTO Provision

Many times when at a site, customers require hydraulics for various purposes. Allison offers two engine-driven Power Take-Off (PTO) positions that can be used to operate a variety of hydraulic functions. These PTOs operate in proportion to engine speed, giving you more flexibility and utility from your transmission. PTOs are customer-supplied.

Dual Mode

Dual mode operations allow one vehicle's transmission to be used for multiple operations. Simply activate a switch to transfer the function of the transmission from driving the rig (road mode) to running a second function (work mode). In addition to being convenient, this feature reduces vehicle weight because only one transmission and engine are needed to run both the truck and the pump.

Integral Drop Box

(3000[1], 4000[1], 5600 and 6600 Series™)

In dual mode or all-wheel drive applications, a drop box is necessary to supply power where it is needed most. Allison created an integral drop box for its 5600 and 6600 Series™ to eliminate the need for a supplemental drop box. This allows service rigs to utilise the same engine and transmission for both "road mode" and "work mode." This dual mode feature is enhanced by Allison electronic controls, which allow the user to switch from operator control in the cab to operator control at the work station, saving time and making your site more efficient.

[1]3000 and 4000 Series transmissions can be configured with an adaptor for a customer-supplied integral drop box.

Allison 5th Generation Electronic Controls

Allison fully automatic transmissions provide built-in, electronic controls to protect operators and equipment. These controls keep torque converters from overheating, automatically shift to neutral in overpressure situations, limit low-range torque to protect engines and/or power ends, reduce torsional shocks during shifting and allow temporary neutral-to-range shifts at higher RPMs so pumps can be rotated. See the following pages for information about the electronics that are part of our smart controls.

Worldwide Sales and Service

The relationship between Allison and its distributors and dealers is the closest and most customer-oriented in the industry. Allison maintains a vast network of authorised distributors and dealers around the world who, in addition to providing parts, are ready to offer complete service support, technical assistance and training. Many distributors and dealers offer emergency service and maintain a warehouse of parts tailored for local customers. All Allison transmission models offer comprehensive coverage, including 100% parts and labour within the warranty period.

Smart Controls

Allison transmissions have brains in addition to muscle. Allison's latest electronic control technology and software packages provide precisely the performance and efficiency features needed to get your job done on time and under budget.

Prognostics

Allison advanced prognostics in 3000 and 4000 Oil Field Series™ (OFS) models monitor various operating parameters—oil level, oil life, filter life and transmission health—and alert you when service is needed.

Alternate Shift Schedules

For rigs with both on- and off-road applications, up to four pre-programmed shifting schedules can be added, allowing you to choose the shift characteristics that best fit the needs of your situation.

Shift Energy Management (SEM)

SEM provides better engine/transmission integration to optimize the entire driveline system and reduce shift shock. The result is smoother, more consistent shift quality, increased powertrain durability and improved performance for more efficient rig operation overall.

Neutral-to-Range Inhibit

This function, sometimes referred to as Auxiliary Function Range Inhibit, helps avoid unwanted shifts out of neutral, preventing equipment damage.

Quick-to-Neutral

Save precious seconds in an overpressure situation. Quick-to-Neutral automatically shifts to neutral if overpressure is detected while pumping, protecting equipment and the well site.

Retarder Enabled

In 3000 and 4000 Series™ as well as OFS™ models, electronic controls precisely blend the transmission, retarder and service brakes for peak efficiency. This helps maximize service brake life.

For More Information

Visit **allisontransmission.com** for a comprehensive library of informational brochures, including:
Mechanic's Tips \ Parts Catalogue \ Operator's Service Manuals \ Troubleshooting Flyers

Ratings And Specifications

4700 OFS™ | 5620 OFS™ [DB] | 6620 OFS™ | 8610 OFS™ | 9800 OFS™

Ratings

Model	Gross Input Power kW (hp)	Gross Input Torque Nm (lb-ft)	Length mm (in)	Width mm (in)	Dry Weight kg (lbs)
3500 OFS	246 (330)	1335 (985)[1]	718.6 (28.3)	431 (17)	243 (535)
4430 OFS	317 (425)	1650 (1217)	793 (31.2)	583 (23)	377 (831)
4500 OFS	421 (565)	2237 (1650)	793 (31.2)	583 (23)	377 (831)
4700 OFS	447 (600)	2508 (1850)	1049 (41.3)	583 (23)	493 (1087)
4750 OFS	496 (665)	2644 (1950)	1049 (41.3)	583 (23)	493 (1087)
5620 OFS - Mobile	447 (600)	2542 (1875)	1095 (43.1)	726 (28.6)	998 (2200)
5620 OFS [DB]	447 (600)	2542 (1875)	1185 (46.7)	734 (28.9)	1247 (2750)
5620 OFS - Stationary	503 (675)	2915 (2150)	1095 (43.1)	726 (28.6)	998 (2200)
6620 OFS - Mobile	567 (760)	3390 (2500)	1095 (43.1)	726 (28.6)	998 (2200)
6620 OFS - Stationary	671 (900)	3729 (2750)	1095 (43.1)	726 (28.6)	998 (2200)
8610 OFS	895 (1200)	4881 (3600)	1411 (55.5)	896 (35.3)	1678 (3700)
9817 OFS	1305 (1750)	7118 (5250)	1435 (56.5)	896 (35.3)	1637 (3610)
9823 OFS	1752 (2350)	8542 (6300)	1435 (56.5)	896 (35.3)	1637 (3610)
9826 OFS	1939 (2600)	10,507 (7750)	1435 (56.5)	896 (35.3)	1683 (3710)
9832 OFS	2386 (3200)	12,200 (9000)	1435 (56.5)	896 (35.3)	1687 (3720)

[1]Shift Energy Management (SEM) engine controls and torque limiting are required to obtain this rating.

Mechanical Ratios *(Gear Ratios do not include torque converter multiplication)*

Model	First	Second	Third	Fourth	Fifth	Sixth	Seventh	Eighth	Reverse	Second Reverse
3500 OFS	4.59	2.25	1.54	1.00	0.75	0.65	–	–	-5.00	–
4440 OFS	4.70	2.21	1.53	1.00	0.76	0.67	–	–	-5.55	–
4500 OFS	4.70	2.21	1.53	1.00	0.76	0.67	–	–	-5.55	–
4700 OFS	7.63	3.51	1.91	1.43	1.00	0.74	0.64	–	-4.80	-17.12[2]
5620 OFS	4.00	2.68	2.01	1.35	1.00	0.67	–	–	-5.15	-3.46
6620 OFS	4.00	2.68	2.01	1.35	1.00	0.67	–	–	-5.15	-3.46
8610 OFS	4.24	2.32	1.69	1.31	1.00	0.73	–	–	-5.75	–
9800	3.75	2.69	2.20	1.77	1.58	1.27	1.00	0.72	–	–

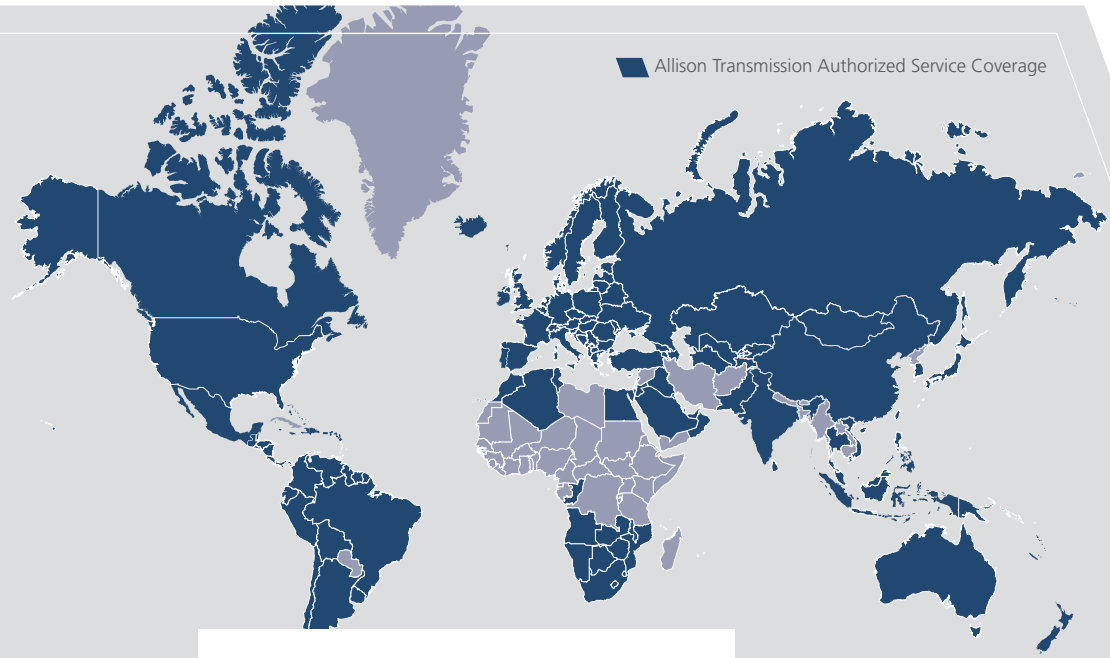
[2]SEM/LRTP or LRTP only is required for Second Reverse on 4700 models.

Optional Engine-Driven Power Take-Off (PTO) Provision

Model	Mounting Pad Positions Viewed From Rear	Drive Gear Rating With One PTO Nm (lb-ft)	Drive Gear Rating With Two PTOs Nm (lb-ft)	PTO Drive Gear	Drive
3000 OFS	4 and 8 o'clock (Std)	660 (485)	930 (685)	68-tooth	Engine
	1 and 8 o'clock (Opt)	660 (485)	930 (685)	83-tooth	Engine
4000 OFS	1 and 8 o'clock (Std)	930 (685)	1595 (1175)	97-tooth	Engine
5620 OFS	5 and 12 o'clock (Std)	424 (313)	424 (313)	46-tooth	Engine
6620 OFS	5 and 12 o'clock (Std)	424 (313)	424 (313)	46-tooth	Engine
8610 OFS	5 and 12 o'clock (Std)	1017 (750)	1017 (750)	59-tooth	Engine
9800 OFS	5 and 12 o'clock (Std)	1017 (750)	1017 (750)	59-tooth	Engine

5/6/8/9000 PTO rating is for TOTAL PTOs, whether you use 1 or 2, these limits apply to 1 individually or 2 combined.

Information and specifications subject to change without notice or obligation.



A World **Of Support**

From our headquarters in Indianapolis, Indiana, USA, to our manufacturing plants in Hungary and India, to approximately 1,400 Allison Authorized Distributors and Dealers around the globe, you are never far from the products, training, service and support you demand.

Our support starts from the moment an Allison transmission is specified. We work with you to ensure that the model and ratings fit your engine to create a tailored package of powerful performance and reliable efficiency. When you need parts or service, you can count on global access to factory-trained specialists and Allison Genuine Parts™.

One Allison Way
Indianapolis, Indiana, USA 46222-3271

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