

## Efficient And Reliable

Whether carrying out start/stop operations in a quiet street, driving at speed along a highway or manoeuvring on a construction site, Allison transmissions will make a significant contribution to the effective and efficient operation of any truck.

Allison 4000 Series™ transmissions provide the ultimate choice for medium and heavy duty applications.

- Rating up to a maximum of 522 kW (700 hp)
- Close and wide ratio gearing
- Engine-driven PTO provision
- Optional integral output retarder
- Advanced electronic controls

Allison designs, develops and manufactures the world's widest range of commercial-duty, fully automatic transmissions for on- and off-road applications.

Designed to match the ratings of current engines and beyond as emissions standards change, the International Series Models bring benefits in productivity, durability and safety. For specific applications, customized transmissions are available to deliver exceptional performance and design flexibility.

Physical Description				
Model	Length mm <sup>1</sup>	Depth with Deep Oil Pan/Sump mm	Depth with Shallow Oil Pan/Sump mm	Dry Weight kg
4000/4200/4430/4440/4500/4600				
Basic Model	776	375	338	377
With PTO Only	849	375	338	405
With Retarder Only	776	375	338	411
With PTO & Retarder	849	375	338	439
4700/4750/4800				
Basic Model	1032	378	-	493
With PTO Only	1105	378	-	521
With Retarder Only	1032	378	-	527
With PTO & Retarder	1105	378	-	555

<sup>1</sup> Length is measured from the front of the converter housing to the end of the output shaft.

Power Take-Off Provision - Continuous Operation					
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
4000 Series™	1 and 8 o'clock (Optional)	930 (685)	1595 (1175)	97-Tooth	Engine

Torque Converter Specifications		
Model	Torque Converter	Stall Torque Ratio
4000 Series™	TC-521	2.42
	TC-531	2.34
	TC-541	1.90
	TC-551	1.79
	TC-561	1.58
	TC-571	1.62

Optional Retarder Provision		
Model	Capacity	
	Torque N•m	Power kW (hp)
4000 Series™	Low	1763
	Medium	2170
	High	2712



## Ratings

Model	Vocation	Gross Input Power <sup>4</sup> kW (hp)	Gross Input Torque N•m	GVW kg
4000	General	421 (565)	2400/2508 <sup>1,2,3</sup>	N/A
	Refuse	373 (500)	2102	N/A
	Fire Truck, Emergency, Airport Rescue, Heavy Equipment Transporter (HET)	447 (600)	2508	N/A
	AG Spreader, Sprayer, Blower, Feedlot Truck	421 (565)	2400	N/A
4000 ORS	Articulated Dump	358 (480)	2203	68,500
	Rigid Dump	358 (480)	2102	57,00
4000 SP	Specialty	Contact Your Allison Representative For Details		
4200 ORS	Articulated Dump	358 (480)	2305	81,000
4430	General, Fire, Airport Rescue, Refuse, HET, AG Spreader, Sprayer, Blower, Feedlot Truck, Highway	283 (380)	1560	N/A
4430 OFS	Oil Field	317 (425)	1650	N/A
4430 ORS	Articulated Dump, Rigid Dump	283 (380)	1675	68,500
4430 SP	Specialty	Contact Your Allison Representative For Details		
4440	General, Fire, Airport Rescue, Refuse, HET, AG Spreader, Sprayer, Blower, Feedlot Truck, Highway	317 (425)	1776	N/A
4500	General, Highway	421 (565)	2237/2400/2508 <sup>1,2,3</sup>	N/A
	Refuse	373 (500)	2102	N/A
	Fire, Emergency, Airport Rescue	447 (600)	2400/2508 <sup>1,2,3</sup>	N/A
	Heavy Equipment Transporter	447 (600)	2237/2508 <sup>1,2,3</sup>	N/A
	Ag Spreader, Sprayer, Blower, Feedlot Truck	421 (565)	2237/2400 <sup>1,2,3</sup>	N/A
4500 OFS	Oil Field	421 (565)	2237	N/A
4500 ORS	Articulated Dump	358 (480)	2102/2203 <sup>1,2,3</sup>	68,500
	Rigid Dump	358 (480)	2102	68,500
4500 SP	Specialty	Contact Your Allison Representative For Details		
4600 ORS	Articulated Dump, Rigid Dump	358 (480)	2100/2305 <sup>1,2,3</sup>	81,000
4700	General	421 (565)	2400/2508 <sup>1,2,3</sup>	N/A
	Refuse	373 (500)	2102	N/A
	Airport Rescue, Heavy Equipment Transporter	447 (600)	2508	N/A
4700 OFS	Oil Field	447 (600)	2508	N/A
4700 ORS	Articulated Dump	373 (500)	2305	81,000
	Mining/Off-Highway	421 (565)	2400	62,596
4700 SP	Specialty	Contact Your Allison Representative For Details		
4750 OFS	Oil Field	496 (665)	2644	N/A
4800	Airport Rescue	522 (700)	2644	N/A
4800 ORS	Articulated Dump	451 (605)	2400/2508 <sup>1,2,3</sup>	96,000
	Mining/Off-Highway	451 (605)	2400/2508 <sup>1,2,3</sup>	62,596
4800 SP	Specialty	Contact Your Allison Representative For Details		

<sup>1</sup>SEM = engine controls with Shift Energy Management. <sup>2</sup>SEM and torque limiting are required to obtain this rating. <sup>3</sup>Contact your Allison representative for details.

<sup>4</sup>Gross Power rating as defined by ISO 1585 or SAE J1995.

## Gear Ratios - Torque Converter Multiplication Not Included

Model	First	Second	Third	Fourth	Fifth	Sixth	Seventh	Reverse	2nd Reverse
4000/4200	3.51:1	1.91:1	1.43:1	1.00:1	0.74:1	0.64:1	-	-4.80:1	-
4430/4440/4500/4600	4.70:1	2.21:1	1.53:1	1.00:1	0.76:1	0.67:1	-	-5.55:1	-
4700/4750/4800	7.63:1	3.51:1	1.91:1	1.43:1	1.00:1	0.74:1	0.64:1	-4.80:1	-17.12:1

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ISO/TS 9000 and ISO 14001 Certified

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