



The ultimate for performance, versatility, and reliability with variable loads and speeds in applications up to 3050 Nm (2,250 lbs.ft.).



- Unbeatable versatility with 19.7 to 1 overall reduction and 14.40 low gear.
- Economical performance with 0.73 and 0.86 overdrives for efficient cruise RPMs.
- Smoother, faster, easier shifting due to patented low-inertia technology.
- Exclusive output seal design improves seal life and eliminates potential for seal damage during yoke removal.
- Faster, smoother range and splitter shifts due to design improvements.
- On selected models an optimised lubrication system provides increased cooling and lubrication for more difficult, harder working applications.
- Quieter operation and increased durability due to helical gears in auxiliary section.
- Improved lubrication with standard internal oil pump and oil lines for directed lubrication.
- Unequaled ratio versatility due to close, even steps in both HI and LO range.
- Enhanced reverse operation safety due to multiple slow reverse ratios.
- Flexible performance - can be operated as a 9, 10, 13 or 18 speed transmission.



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SUPPORT

# Fuller® 18-Speed Transmissions

MODEL	CAPACITY	WEIGHT*	LENGTH**	SPEEDS
RTLO-14918B	1450 lbs.ft. [1966 Nm]	716 lbs. [324.77 kg]	33.1 in. [840.74 mm]	18 forward, 4 reverse
RTLO-16918B	1650 lbs.ft. [2237 Nm]	716 lbs. [324.77 kg]	33.1 in. [840.74 mm]	18 forward, 4 reverse
RTLO-18918B	1850 lbs.ft. [2508 Nm]	716 lbs. [324.77 kg]	33.1 in. [840.74 mm]	18 forward, 4 reverse
RTLO-20918B	2050 lbs.ft. [2779 Nm]	716 lbs. [324.77 kg]	33.1 in. [840.74 mm]	18 forward, 4 reverse
RTLO-22918B	2250 lbs.ft. [3050 Nm]	716 lbs. [324.77 kg]	33.1 in. [840.74 mm]	18 forward, 4 reverse

\* Less clutch housing, lubricant and end yoke. \*\* Lengths listed are from face of clutch housing to front bottoming surface of companion flange or yoke.

## Ratios and Steps

18-Speed Models	Reverse				Overall Ratio	Forward Gears																					
	R1	R2	R3	R4		LL	L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
RTLO-14918B	15.06	12.85	4.03	3.43	19.72	14.4	12.29	8.56	7.3	6.05	5.16	4.38	3.74	3.2	2.73	2.29	1.95	1.62	1.38	1.17	1.00	0.86	0.73				
RTLO-16918B					% Step	17	44	17	21	17	18	17	17	17	17	17	19	17	20	17	18	17	17	17	17		
RTLO-18918B					19.72	14.4	12.29	8.51	7.26	6.05	5.16	4.38	3.74	3.2	2.73	2.28	1.94	1.62	1.38	1.17	1.00	0.86	0.73				
RTLO-20918B					% Step	17	44	17	20	17	18	17	17	17	17	17	17	20	17	20	17	18	17	17	17	17	
RTLO-22918B																											

## Specifications:

Clutch Housing Size:

- SAE #1 and #2.
- Cast iron and aluminium available.

PTO Openings:

- Two SAE standard openings.
- Right side, regular duty, 6-bolt.
- Bottom, heavy duty, 8-bolt.

PTO Drive Gears:

- Right side, a 45-tooth, 6/8 pitch gear.
- Left side, a 47-tooth, 6/8 pitch gear. Both gears turn at .79 engine speed.

Oil Capacity:

- Approx. 28 pints [13.3 litres].
- Integral oil pump standard.

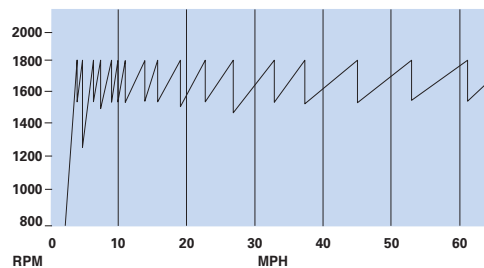
## Low-Inertia Concept:

This innovative, patented design is identified in the Fuller nomenclature by the letter "L" (as in RTLO-18918B).

These transmissions feature a simple mainshaft which is not splined to the auxiliary drive gear. This unique design eliminates the added mass, drag and inertia of the entire auxiliary section.

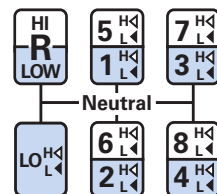
During upshifts, where both the lever and splitter button are moved together, the low-inertia mainshaft is quickly brought to synchronous resulting in fast, easy shifts.

## Performance Chart:



Based on 1800 RPM engine cruising at 1630 RPM / 65 MPH.

## Shift Pattern:



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