

High Reduction Transmissions for Special-Purpose Low-Speed Applications



Ideal for concrete or asphalt spreading operations.

- 35.71 to 1 overall ratio coverage maintains pouring speeds even with reduced RPM engines.
- Improved performance in delivery speed range due to better ratios.
- Superior loaded performance with three more usable ratios versus 8-speeds.
- Improved output seal system increases seal life and eliminates potential for seal damage during yoke service.
- Driver-friendly operation with repeat shift pattern and convenient ratio steps.
- Quieter operation and increased durability due to helical gears in auxiliary section.
- High capacity tapered roller bearings on the auxiliary countershafts for increased bearing life.
- Proven heavy-duty synchronizer technology offers easy range shifting and long life.
- Torque ratings at 1650 [2237] and 1450 lb-ft [1966 Nm] to match heavy-duty engines.
- Roadranger warranties are available for a wide variety of applications. To find the coverage that applies to your specific vocation, please see the Vocational Warranty Guide (TCWY0900), at www.eaton.com/roadranger.



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Fuller® 11-Speed Transmissions

Total System Installed Specifications (Dry)

SPECIFICATIONS	CAPACITY	WEIGHT*	LENGTH**	SPEEDS
RTO-14909ALL	1450 lbs.ft. [1966 Nm]	671 lbs. [304.36 kg]	33.1 in. [840.74 mm]	8 forward, 3 low, 3 reverse
RTO-16909ALL	1650 lbs.ft. [2237 Nm]	698 lbs. [316.61 kg]	33.1 in. [840.74 mm]	8 forward, 3 low, 3 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.

Specifications:

Clutch Housing:

- SAE No. 1 and No. 2. cast iron or aluminum.

Power Take-offs:

- Two SAE standard openings.
- Right side, regular duty, 6-bolt, short length.
- Bottom, heavy-duty, 8-bolt.
- Optional through-shaft PTO.

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 of engine speed.
- Constant mesh type PTO required on right side PTO opening.

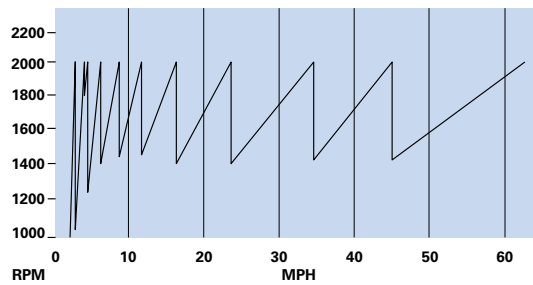
Oil Capacity:

- Approx. 28 pints [13.3 liters].
- Integral oil pump available.

Ratios and Steps:

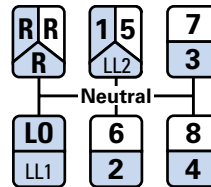
GEAR	RATIO	% STEP
8th	0.73	37
7th	1.00	38
6th	1.38	42
5th	1.95	
Range Shift		42
4th	2.77	37
3rd	3.79	38
2nd	5.23	42
1st	7.41	60
Lo-Lo 2	11.85	37
Lo	16.30	60
Lo-Lo 1	26.08	
HI REV	3.43	
Lo REV	13.03	
Lo-Lo Rev	20.85	
Overall	35.71	

Performance Chart:



Based on engine operating at 2000 RPM with top geared road speed of 62 MPH.

Shift Pattern:



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For spec'ing or service assistance, call 1-800-826-HELP (4357) or visit www.eaton.com/roadranger. In Mexico, call 001-800-826-4357.

Roadranger: Eaton and trusted partners providing the best products and services in the industry, ensuring more time on the road.

Eaton

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