The FR Series 10-Speed ("B" ratio, "C" ratio and High Torque Models)

A standard in transmission performance, reliability and durability.

- Improved tolerance to driver abuse with larger diameter mainshaft and new mainshaft washer design.
- Patented SynchroSaver™ feature protects against range synchronizer damage caused by improper operation.
- Integrated air module improves reliability by eliminating separate components and external air hoses.
- Exclusive output seal design improves seal life and eliminates potential for seal damage during yoke removal.
- Better rail definition, more precise shifting and improved durability with patented single-rod shift controls.
- Increased payload capacity with up to 32 lb. weight reduction compared to RT Series.
- Enhanced PTO options, with relocated side opening and option for two through-shaft PTOs.
- Roadranger warranties are available for a wide variety of applications. To find the coverage that applies to your specific vocation, please see the Warranty Guide (TCVY0900) at www.eaton.com/roadranger.
Fuller® 10-Speed Transmissions

**Specifications:**

- **Clutch Housing Size:**
  - SAE #1 and #2. Grey iron or aluminum available.
- **Power Take-Offs:**
  - 2 SAE standard openings.
  - Right side, regular duty, 6-bolt. Bottom, heavy-duty, 8-bolt. Thru-shaft PTO upper right and/or lower left available.
- **PTO Drive Gears:**
  - Right: 6 bolt; 45-tooth; 6/8 pitch gear. Left: 8 bolt; 47-tooth; 6/8 pitch gear turn at .65 engine speed - direct, .87 for overdrive.
- **Oil Capacity:**
  - Approx. 23.5 pints [11.1 liters].
  - Integral oil pump, internal and external oil coolers are available.

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- Approx. 23.5 pints [11.1 liters].
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**Models**

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Weight*</th>
<th>Length**</th>
<th>Speeds</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR-9210B</td>
<td>950 lbs.ft. [1288 Nm]</td>
<td>592 lbs. [268.53 kg]</td>
<td>29.9 in. [760.22 mm]</td>
<td>10 forward, 2 reverse</td>
</tr>
<tr>
<td>FR-14210B</td>
<td>1450 lbs.ft. [1965 Nm]</td>
<td>592 lbs. [268.53 kg]</td>
<td>29.9 in. [760.22 mm]</td>
<td>10 forward, 2 reverse</td>
</tr>
<tr>
<td>FR/FRM/FRW-15210B</td>
<td>1550 lbs.ft. [2101 Nm]</td>
<td>602 lbs. [273.10 kg]</td>
<td>29.9 in. [760.22 mm]</td>
<td>10 forward, 2 reverse</td>
</tr>
<tr>
<td>FRO-14210C</td>
<td>1450 lbs.ft. [1965 Nm]</td>
<td>592 lbs. [268.53 kg]</td>
<td>29.9 in. [760.22 mm]</td>
<td>10 forward, 2 reverse</td>
</tr>
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<td>FRO-15210C</td>
<td>1550 lbs.ft. [2101 Nm]</td>
<td>602 lbs. [273.10 kg]</td>
<td>29.9 in. [760.22 mm]</td>
<td>10 forward, 2 reverse</td>
</tr>
<tr>
<td>FRO-16210C</td>
<td>1650 lbs.ft. [2237 Nm]</td>
<td>602 lbs. [273.10 kg]</td>
<td>29.9 in. [760.22 mm]</td>
<td>10 forward, 2 reverse</td>
</tr>
<tr>
<td>FRO-17210C</td>
<td>1750 lbs.ft. [2373 Nm]</td>
<td>602 lbs. [273.10 kg]</td>
<td>29.9 in. [760.22 mm]</td>
<td>10 forward, 2 reverse</td>
</tr>
<tr>
<td>FRO-18210C</td>
<td>1850 lbs.ft. [2508 Nm]</td>
<td>602 lbs. [273.10 kg]</td>
<td>29.9 in. [760.22 mm]</td>
<td>10 forward, 2 reverse</td>
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</table>

* 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:**

<table>
<thead>
<tr>
<th>Models</th>
<th>Reverse</th>
<th>Overall Ratio</th>
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<th>L</th>
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<tbody>
<tr>
<td>FRO-9210B*</td>
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<td>FRO-14210B*</td>
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</table>

* These (950 lb-ft. - 1750 lb-ft.) transmissions can be rated at 100 additional lb-ft. torque above the stated limit in the top two gears only.
** This transmission can be rated at 200 additional lb-ft. torque above the stated limit in the top two gears only.

**Shift Pattern:**

FRO Series models feature an “X” style shift pattern as standard. No “U” style shift pattern is available.

**Performance Chart:**

Based on 1800 RPM engine operating at 1550 RPM/62 MPH.

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**Powered by Roadranger Support**

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

In Mexico, call 001-800-826-HELP (4357)

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