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# Efficiency, performance and safety for whatever lies ahead.

More fuel efficient than torque converter automatics and serviceable at any OEM.

**Platforms:**

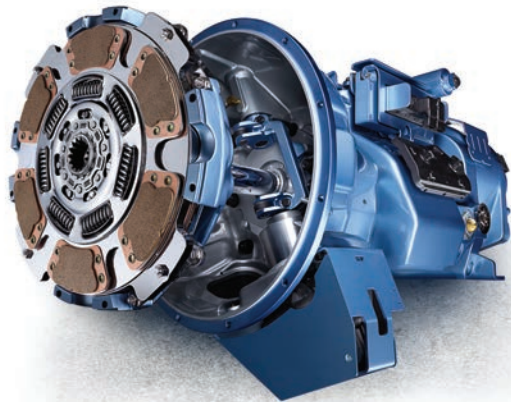
- Linehaul Active Shifting (LAS)

No other fully automated transmission offers the fuel economy AND serviceability of UltraShift PLUS. Built upon the Fuller 10-speed manual transmission, the UltraShift PLUS uses an electronic clutch actuator to provide faster shifting and smoother engagement. The UltraShift PLUS fully engages the clutch at idle, giving the driver ultimate control in challenging situations, like parking lots, loading docks and other tight spaces.

**Technical Features**

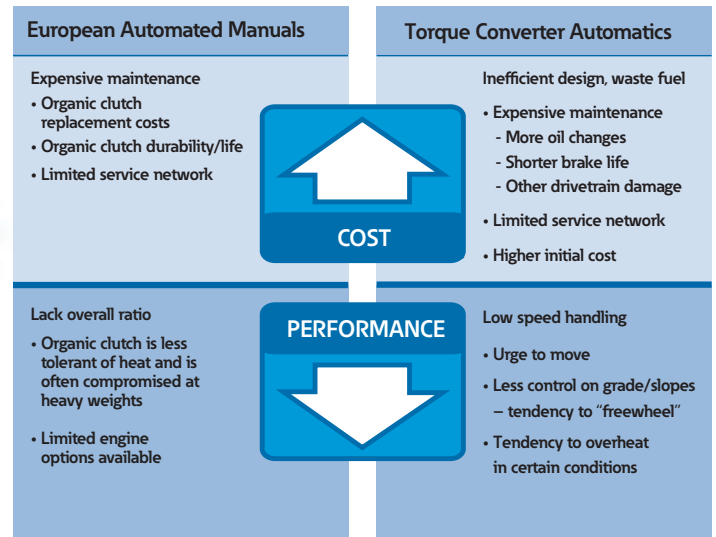
- Fully automated two-pedal design (no clutch pedal)
- Electronic Clutch Actuator (ECA) provides smooth engagement
- Safety features include auto neutral and Intelligent Hill Start Aid, which prevents roll-back and roll-forward while launching on grades using foundation wheel brakes
- Automatic, Manual and Low modes offer driver full control
- Creep Mode
- Paired to the highest torque engines available today with torque capacities ranging from 1450 lb-ft (1966 Nm) through 1850 lb-ft\* (2508 Nm)
- World class startability and ratio coverage

\*Multi-torque model FOM-16E310C-LAS



**The Downside of Alternative Transmissions:**

Cost and performance



Powering Business Worldwide

# UltraShift® PLUS Linehaul Automated Transmissions

## Total System Installed Specifications (Dry)

SPECIFICATIONS	CAPACITY	SYSTEM WEIGHT*	SYSTEM LENGTH**	SPEEDS
FO-14E310C-LAS	1450 lbs. ft. [1966 Nm]	915 lbs. [415 kg]	37.42 in. [950 mm]	10 forward, 2 reverse
FO-16E310C-LAS	1650 lbs. ft. [2237 Nm]	915 lbs. [415 kg]	37.42 in. [950 mm]	10 forward, 2 reverse
FOM-14E310C-LAS	1450-1650 lbs. ft. [1966-2237 Nm] <sup>1</sup>	915 lbs. [415 kg]	37.42 in. [950 mm]	10 forward, 2 reverse
FOM-15E310C-LAS	1550-1750 lbs. ft. [2102-2373 Nm] <sup>1</sup>	915 lbs. [415 kg]	37.42 in. [950 mm]	10 forward, 2 reverse
FOM-16E310C-LAS	1650-1850 lbs. ft. [2237-2508 Nm] <sup>1</sup>	915 lbs. [415 kg]	37.42 in. [950 mm]	10 forward, 2 reverse
FM-14E310B-LAS	1450-1650 lbs. ft. [1966-2237 Nm] <sup>1</sup>	915 lbs. [415 kg]	37.42 in. [950 mm]	10 forward, 2 reverse
FM-15E310B-LAS	1550-1750 lbs. ft. [2102-2373 Nm] <sup>1</sup>	915 lbs. [415 kg]	37.42 in. [950 mm]	10 forward, 2 reverse

\* Dry weight, including clutch \*\* Standard install length <sup>1</sup> +200 lb-ft. [271 Nm] in top two gears

## Ratios and Steps

Model	Reverse		Overall Ratio	Forward Gears									
	R2	R1		1	2	3	4	5	6	7	8	9	10
LAS 10B	3.89	18.18	15.42	15.42	11.52	8.55	6.28	4.67	3.30	2.46	1.83	1.34	1.00
			% Step	34	35	36	34	42	34	34	34	37	34
LAS 10C	2.78	13.63	17.53	12.80	9.25	6.76	4.90	3.58	2.61	1.89	1.38	1.00	0.73
			% Step	38	37	38	34	37	38	37	37	38	37

Heavy-Duty Model Family	Linehaul	Heavy Haul	Logging	Mining	Oil Field	Construction	City Delivery	Refuse	Agricultural	Off Highway
UltraShift PLUS LAS										

Shading indicates approved vocations. All automated transmissions must have Eaton engine certification.

### Driver Interface Simple and Intuitive

- Manual override available
- Low mode
- Button shifting in drive, reverse, manual and low modes

### Driveline Protection Features

- Stall prevention
- Engine Overspeed Protection
- Clutch Abuse Protection
- Auto gear select
- Hill Start Aid

### Supported by the Roadranger Network

- OEM dealer, fleet familiarity
- Parts and service widely available
- Does not require service by a dedicated service network
- Modular design minimizes cost and time of service
- Roadranger field service force provides training and support at dealership and fleet level
- Advanced electronics facilitate comprehensive diagnostic capabilities

### Warranties

Five-year/750k mile transmission and 3-year/350k mile clutch warranty for most applications. You can find your specific vocation coverage on [www.roadranger.com](http://www.roadranger.com). Select the vocational warranty guide.



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[Roadranger.com](http://Roadranger.com)

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 TRSL2502 0711

Backed by **Roadranger Support**

**For spec'ing or service assistance, call 1-800-826-HELP (4357) or visit our web site at [www.roadranger.com](http://www.roadranger.com). In Mexico, call 001-800-826-4357.**

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