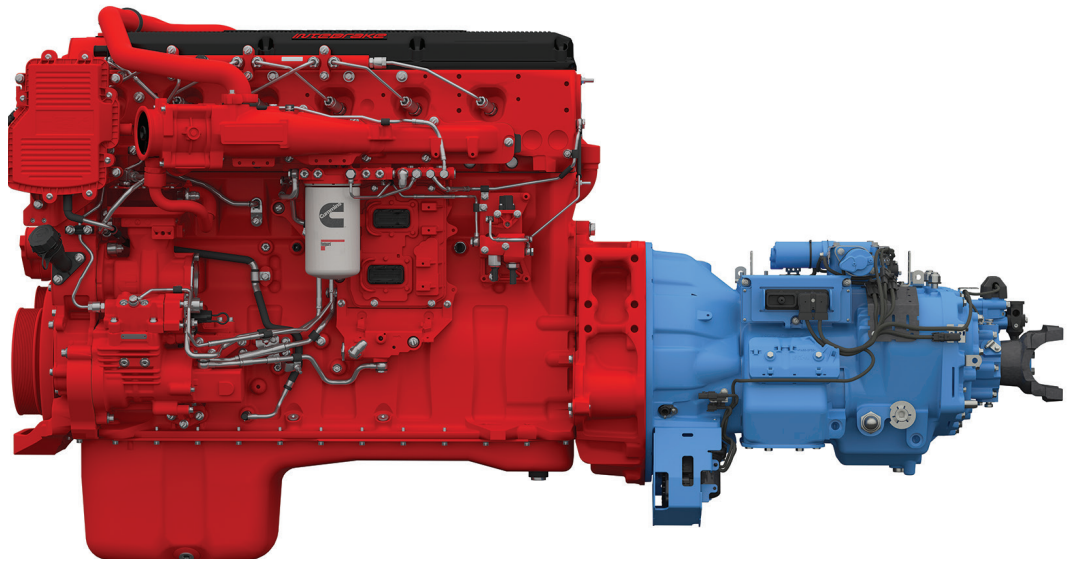


# Cummins and Eaton Powertrain Package Delivering Power and Fuel Efficiency Like Never Before

## Cummins and Eaton Powertrain Package

This totally integrated unit optimizes everything from top-end torque to bottom-line fuel economy. Cummins powerful ISX15 engine with next generation SmartTorque2 technology is combined with an Eaton Fuller Advantage™ 10-speed automated transmission, yielding significant benefits across the board for linehaul and regional haul fleets. The engine and transmission share critical data, determining the torque curve and power level needed to match real-time load demand. This optimizes performance and fuel economy as a total unit like never before.



## 3% – 6% Better Fuel Economy

Everyone knows that one of the biggest factors in getting the best fuel economy out of an engine and transmission is proper driving technique. This powertrain package makes it easy for every driver to get 3% to 6% get better fuel economy through advanced, automated technology. Cummins SmartTorque2 ratings can deliver up to 200 extra lb-ft [271Nm] of peak torque in the top two

Integrated power, fuel, and shifting strategies provide optimal fuel economy for NAFTA linehaul applications without compromising performance.

gears, so trucks stay in top gear longer on upgrades – increasing miles (kilometers) per gallon. Next-generation electronic controls between the engine and transmission sense the load demand at the engine, selecting the best torque curve to match vehicle weight, road grade and the desired road speed.

SmartTorque2 ratings include Vehicle Acceleration Management, a patented feature that manages the maximum acceleration rate of the vehicle and that has demonstrated significant fuel-economy gains in stop-and-go duty cycles like regional haul applications.

Optimized engine and transmission communications are combined with unique control logic to further enhance downspeeding in both overdrive and direct operation – which uses less fuel.

# Cummins and Eaton Powertrain Package

## Better in More Ways than One

The Eaton Fuller Advantage transmission features “precision lubrication” technology that reduces churning losses, further enhancing fuel economy. Precision lubrication technology also eliminates the need for a cooler in most applications, which reduces weight as well as increasing reliability.

The elimination of the cooler, together with extensive use of aluminum on select components, all adds up to a 75-pound [34 kg] weight savings versus the UltraShift® PLUS LAS base model. So fleets will save fuel on hauls that are “cubed out” or be able to carry additional payload when hauling at GVW limits.

## Better for Every Driver

The driver shortage in the trucking industry is critical. When you spec this powertrain package on your next truck order, you get a vehicle that is easier for training new drivers. It's easier to drive with automated shifting, so operators can concentrate on the road and traffic ahead. There's less driver fatigue and fewer clutch-related and shifting related wear issues. Plus, this powertrain includes a Hill Start Aid that, when engaged, prevents rollbacks. This reduces risk and simplifies operation for both inexperienced and experienced drivers.

## Better for Peace of Mind

Cummins ISX15 base warranty coverage is 2 years/ 250,000 miles (402,336 km) and includes parts and labor on warrantable failures for the engine and after-treatment system with no deductible. Several extended coverage plans are available. Check with your Cummins distributor or dealer for details. The Fuller Advantage Series transmission is warranted for 5 years/750,000 miles (1,200,000 km) when using PS-164 Rev 7 oil. For warranty details, see Eaton warranty guide TCWY900 on [www.roadranger.com/warranty](http://www.roadranger.com/warranty).

## Better over the Long Haul

The reliability and durability of the Cummins ISX15 have made it the most popular heavy-duty engine in the industry. It is backed by the largest and most capable service network in North America, with over 3,500 authorized locations – and 24/7/365 support through Cummins Care at 1-800-DIESELS (1-800-343-7357).

## Transmission Guidelines

Pre-release Limitations:

- All truck orders require application approval
- NAFTA linehaul trucks only
- Max GCW at launch is 80,000 lbs [36,287 kg] with future expansion to 110,000 lbs [49,895 kg]

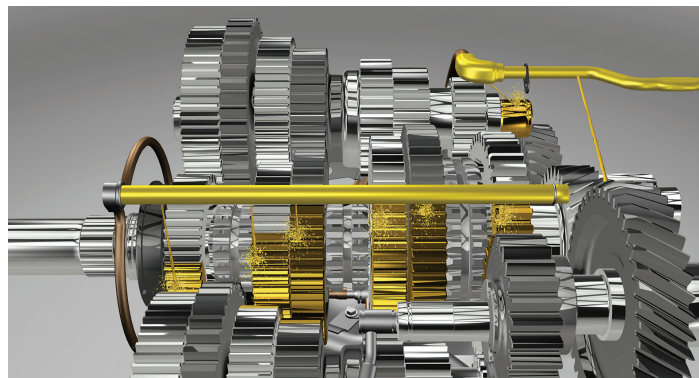
All other current automated transmission guidelines remain the same as published in TRAG2600

BACKED BY

**Roadranger**

SUPPORT

**Eaton Fuller Advantage transmissions are backed by Roadranger support – for spec'ing or service assistance, just call 1-800-826-HELP (4357) or visit [eaton.com/roadranger](http://eaton.com/roadranger)**



Precision lubrication system eliminates the oil cooler for most applications and improves transmission efficiency.

MODEL	POWER HP (KW)	PEAK TORQUE LB-FT [NM] @RPM
Eaton FAOM-14810S-EC3		
Cummins ISX15 415STA	415 [309]	1450/1650 [1966/2237] @ 1000
Eaton FAOM-15810S-EC3		
Cummins ISX15 450STA	450 [336]	1550/1750 [2102/2373] @ 1000

## Specifications

Power Take-Offs:

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

- Thru-shaft PTO 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. 16 pints [7.57 liters]

Transmission Controller:

- Current Gen 3

## Ratios and Steps

GEAR	RATIO	% STEP
10th	0.80	26
9th	1.00	42
8th	1.42	43
7th	2.03	39
6th	2.83	40
5th	3.97	26
4th	4.98	42
3rd	7.06	43
2nd	10.12	39
1st	14.11	
Hi REV	3.43	
Lo REV	17.12	
Overall	17.7	

**Note:** Features and specifications listed in this document are subject to change without notice and represent the maximum capabilities of the products with all options installed. Although every attempt has been made to ensure the accuracy of information contained within, Eaton makes no representation about the completeness, correctness or accuracy and assumes no responsibility for any errors or omissions. Features and functionality may vary depending on selected options.

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