## **Roadranger**®

**Fuller® Automated Transmissions** 



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#### **Transmissions**

The chart below outlines general information and approved vocations for transmission model families. This information is intended as a guide only. Please see your Roadranger® representative or OEM dealer salesperson for final specifications.

Model Family	Lbs./Ft. Max. TQ [Nm]	Max. Engine HP	Forward Speed	Max. GCW [lbs.]	Design	Linehaul	Heavy Haul	Mining	Construction	City Delivery	Refuse	Recreational
HEAVY DUTY						_	_					
UltraShift LST (Linehaul Standard) <sup>2</sup>	1650 [2237]	600	10	80,000	2-pedal	X						X
UltraShift LHP (Linehaul High Performance) <sup>3</sup>	1650 [2237]	600	13+Low	110,000	2-pedal	Х						X
UltraShift LEP (Linehaul Efficient Performance) <sup>3</sup>	1650 [2237]	600	13	80,000	2-pedal	X						
AutoShift 18	2250 [3051]	700	18		3-pedal	Х	X	X	Х		X	
AutoShift 10	1850 [2509]	600	10		3-pedal	X			X	X		
MEDIUM DUTY							_					
UltraShift HV (Highway Value)	660 [895]		5, 6	33,000	2-pedal	X				X		

'Greater than 140,000 lbs. GCW.

'Allowed 100 lbs./ft. above rated transmission torque in the top 2 gears only.

'Multi-torque versions allow 100 lbs./ft. above rated transmission torque in the top 2 gears only (in the top 4 gears with a Caterpillar C13 and C15).

The quality and dependability of UltraShift® and AutoShift™ transmissions have been proven year after year, in industry after industry.

Roadranger has long been the recognized leader in 2-pedal automated transmissions, with new innovations continually

building on that reputation.
Countless fleets have
experienced improved
vehicle and driver performance
by choosing Fuller® automated
transmissions. Recognizing
that automated transmissions
are not one-size-fits-all, Eaton
offers the widest array of

configurations, with 49 possible designs all based on the same advanced technology. The entire UltraShift and AutoShift family provides computer-controlled shifting for improved transmission performance, fuel economy, and driver

productivity. So no matter what your application, you can expect optimal operation and efficiency.

"Every shift - since it's computercontrolled – is now done in the engine's 'sweet spot,' so we get the best fuel economy. The benefits of the UltraShift transmission are primarily for the driver. Since they don't have to shift, they can keep both hands on the wheel and all their attention on the road. The shifts are smoother – all done at the appropriate RPM which vastly reduces abuse not only on the transmission itself, but the entire drivetrain, back to the axles as well."

Mike Derrig Director of Maintenance L.J. Kennedy Trucking



## Superior Fuel Efficiency Is Bringing The UltraShift® And AutoShift™ Even More Attention These Days.

Fuel efficiency is no longer an added value in a transmission — it is an absolute must. As fuel costs continue to escalate, it is vital to find ways of saving every possible drop. With UltraShift<sup>®</sup> and AutoShift<sup>™</sup> automated transmissions, expect better fuel savings than conventional automatic transmissions can deliver.

In addition to fuel savings, thousands of fleets rely on UltraShift and AutoShift transmissions for reduced maintenance, which ultimately means lower repair costs and less service time. And the ease of a two-pedal transmission equipped with computer-controlled shifting helps all drivers perform as efficiently as your best drivers.

More than 110,000 Fuller® automated transmissions have logged over 20 billion miles.

#### There's No Value Like UltraShift®

The UltraShift® LEP (Linehaul Efficient Performance) transmission uses optimized shift calibrations that are tailored to each engine's unique fuel map. This keeps RPMs low, while maintaining driveability in virtually any terrain. In preliminary testing, the LEP provided a 2% efficiency improvement over standard automated mechanical transmissions. That translates to as much as \$1,632 in fuel savings per truck per year.<sup>†</sup>

†Assumes \$4.00 per gallon and 125K miles per year highway linehaul application.

The UltraShift HV (Highway Value) transmission features an automatic start mechanism that reduces drivetrain abuse for less downtime. Independent testing confirms that the HV can save fleets up to \$2,223 in fuel and maintenance costs per truck annually.\*

#### **Streamlined Maintenance** and Service

Since each UltraShift® and AutoShift™ transmission is designed with a Fuller® base box and modular automation components, they cost less

to service than conventional automatic transmissions. And when you do need parts, they're available through a vast distribution network. Thousands of dealer locations are trained to service all UltraShift and AutoShift products.

#### The Roadranger® Promise

The Roadranger® System is an unbeatable combination of the best products from Eaton Corporation and Dana Limited, backed by the Roadranger network - the

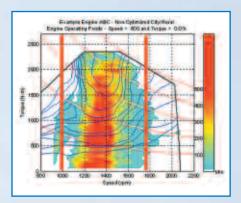
and accessible drivetrain consultants in the business The Roadranger mission is to provide the most comprehensive customer support offerings available. This begins with a 24-hour-aday technical support call center network, an excellent source of information on warranty coverage, parts and vehicle specifications, parts and service literature, repair strategies, and warranty claim decisions.

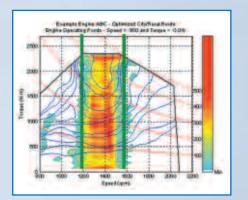
most experienced, expert,

The UltraShift® HV Could Save Your Customers Up to \$2,223 in One Year Calculate your savings at www.roadranger.com/UltraShiftHV

Fuel Cost \$2,223

\* Results are based upon tests conducted by an independent firm in accordance with SAE J1526 "Joint TMC/SAE Fuel Consumption In-Service Test Procedure, Type III." Assumes 30K miles per year in an urban setting, with fuel priced at \$4.00/gallon. Your results may vary.





Optimized calibration for the UltraShift® LEP maintains tighter control over the engine speed and torque, allowing the engine to spend more time in the most efficient regions of the fuel map in high shift density terrain. The map on the right shows an example of how the UltraShift LEP stays in the engine's "sweet spot" for better fuel economy.

a year in fuel with the UltraShift. With that kind of fuel efficiency, we couldn't afford not to invest in the UltraShift."

"We could save over \$100.000

Dale deBoer President deBoer Trucking



"With the UltraShift HV, we are getting about two miles per gallon better fuel economy than our other similar trucks. We also see a reduction in driver training costs due to ease of learning with the UltraShift HV. The truck is very easy to maneuver, especially in tight situations like backing and parallel parking."

Justin Smitter
Route Supervisor
Henry A. Fox Sales Company



# **UltraShift® Helps You Attract, Train, And Retain The Best Drivers.**

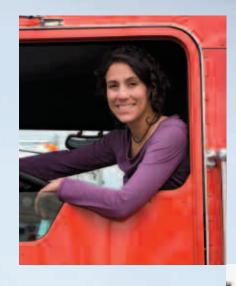
Automated transmissions help you attract drivers and train them faster. Once they're on the road, it's easier to keep them there, which saves you money in the long run. Since it's easier to operate, the automated design expands your pool of potential drivers. Computerized shifting optimizes performance and eliminates wear and tear on both drivers and drivetrain components.

UltraShift® and AutoShift™ transmissions also improve safety, reducing driver fatigue and distractions that can lead to accidents. They provide value and they hold it too. Kelley Blue Book adds \$1,500 for vehicles equipped with UltraShift transmissions. And, of course, each transmission is backed by Roadranger's industry-leading support and warranties.

Kelley Blue Book adds \$1,500 for vehicles equipped with UltraShift® transmissions.



UltraShift® levels the playing field, allowing each of your drivers to perform as efficiently as the next.



UltraShift simplifies trucking, enabling you to choose from a larger pool of potential drivers.



UltraShift can be configured specifically for your driving conditions.

"With the UltraShift, we're beginning to see improvements in our driver retention. We're seeing an influx of new drivers too."

Steve Maxson Equipment Purchasing Manager Averitt Express







### **Fuller® Automated Transmissions**

For spec'ing or service assistance, call 1-800-826-HELP (4357) 24 hours a day, 7 days a week or visit our Web site at www.roadranger.com. In Mexico, call 001-800-826-4357.

Visit us on the Web: www.roadranger.com

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