

The entire UltraShift® PLUS line

Six new transmission platforms are available as part of the UltraShift PLUS family, and thousands of configurations are available. Let us help you find one that's perfect for your operation.

- ✦ Linehaul Active Shifting (LAS)
- ✦ Multipurpose High Performance (MHP)
- ✦ Multipurpose Extreme Performance (MXP)
- ✦ Vocational Construction Series (VCS)
- ✦ Vocational Multipurpose Series (VMS)
- ✦ Vocational Extreme Performance (VXP)

UltraShift® PLUS:

Change your mind about changing gears.

For Linehaul Applications

- Linehaul Active Shifting (LAS) ✦
- Multipurpose High Performance (MHP) ✦
- Multipurpose Extreme Performance (MXP) ✦



©2010 Eaton Corporation.
All rights reserved. Printed in USA. TRSL2505

Roadranger®



EATON

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

Eaton Corporation • P.O. Box 4013 • Kalamazoo, MI 49003 • U.S.A. • www.roadranger.com

Roadranger®



EATON

EATON

Powering Business Worldwide

The transmission you can count on

From the people you trust.

Eaton is the global leader in heavy-duty transmissions with nearly 100 years of proven success in the commercial trucking industry. And, as a pioneer, we will continue to look for new ways to deliver value in the products, services, and solutions that are most important to our customers' success.

Eaton® leadership:

- Trusted by fleets and drivers for decades
- A transmission technology innovator
- A leader in automation
- Factory-installed at multiple OEMs
- Roadranger® service and support



Over **200** Roadranger® representatives to support you



OVER 300,000 AUTOMATED LINEHAUL TRANSMISSIONS ON THE ROAD, COVERING OVER 45 MILLION MILES.

UltraShift® PLUS Benefits



Life Cycle Costs

UltraShift® PLUS balances performance with fuel economy, providing error-free, guess-proof shifting – making every driver in your fleet shift as fuel-efficiently as your best driver.



Safety

Built-in features like Hill Start Aid provide the driver with a consistent controlled launch, helping to prevent rolling when stopped on a grade. With UltraShift® PLUS, drivers can focus on the road, rather than the next gear.

Uptime

UltraShift® PLUS transmissions are engineered for maximum uptime and productivity, and Roadranger service makes sure your truck stays that way. Thousands of truck dealerships with factory-trained technicians stand ready to help whenever you need it.

Performance

There are thousands of UltraShift® PLUS transmission configurations available. Each one provides superior start-ability, grade-ability and low speed maneuverability, delivering the optimum blend of performance and economy.

Driver Issues

UltraShift® PLUS powers your driver recruitment, training, and retention efforts by helping to save time and money. Both new and experienced drivers love the simplicity, comfort, and additional safety features offered by UltraShift® PLUS.



Introducing UltraShift® PLUS: Enhanced design for superior performance.

UltraShift® PLUS provides extreme efficiency over other automated and automatic transmissions, as well as a number of performance and cost advantages. Its two-pedal design uses electronics to engage and disengage the clutch, so drivers can concentrate on the road, not on shifting. Best of all, UltraShift® PLUS can be tailored to the unique needs of each fleet in order to provide optimal performance.

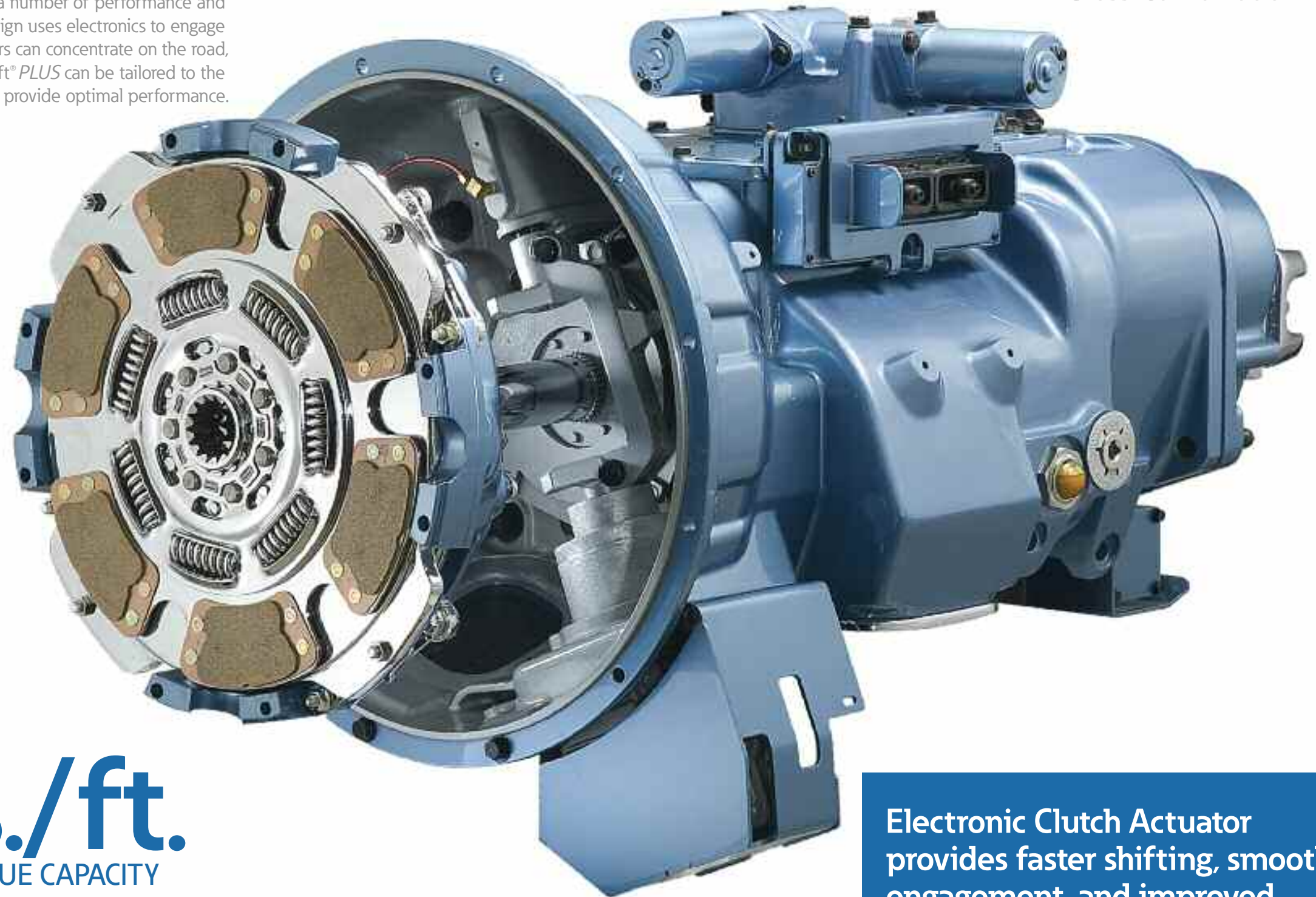
Available in
10, 11, 13, and
18 speeds

Available in
direct and
overdrive models

Up to
2,250 lbs./ft.
of TORQUE CAPACITY

Up to
23%
better fuel economy
vs. conventional automatic*

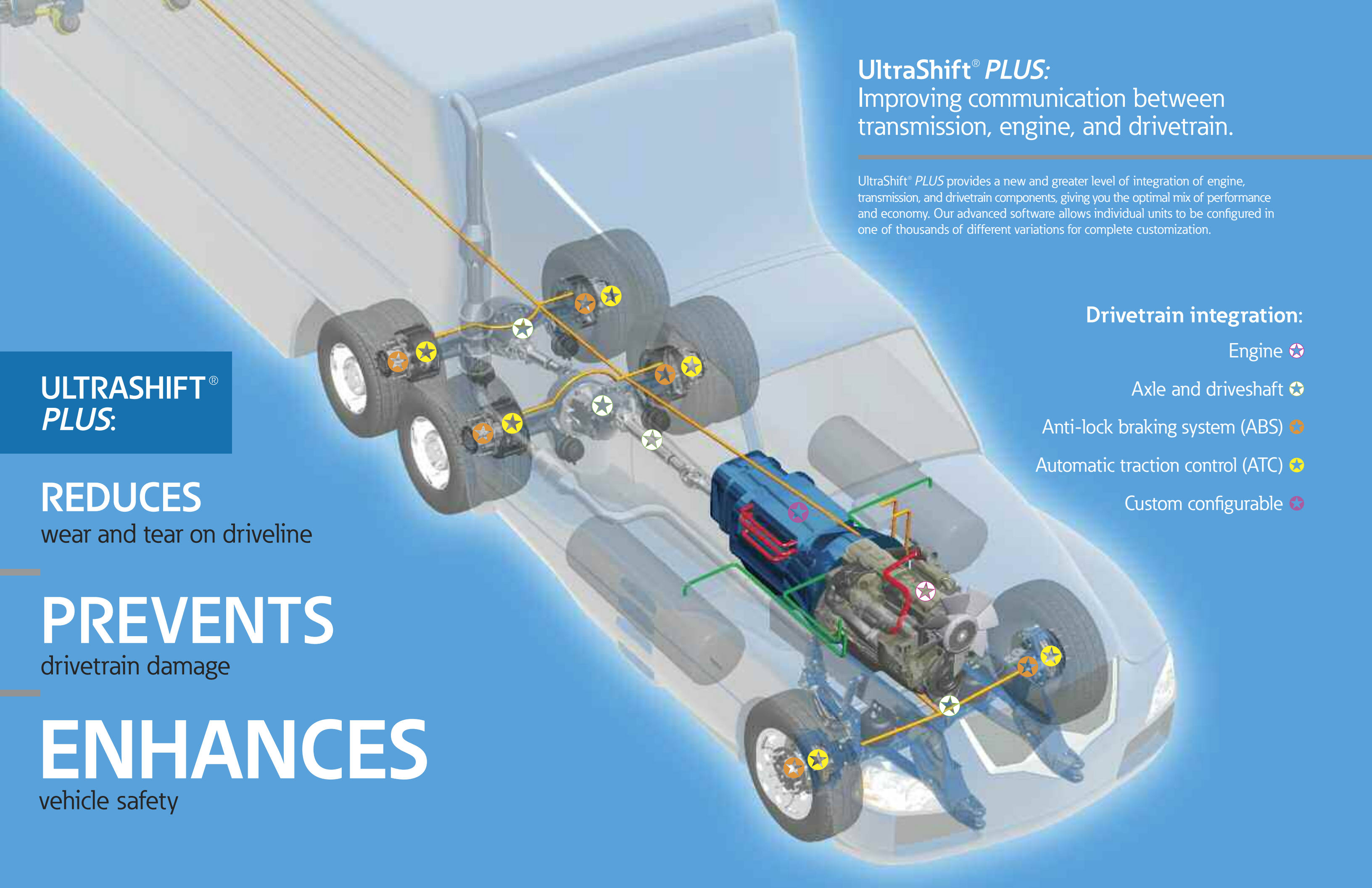
Unlimited
Gross Combination Weight†



Electronic Clutch Actuator
provides faster shifting, smoother
engagement, and improved
low speed maneuverability

*2009 study conducted by Roush Industries Inc., for the U.S. Army Tank Automotive Research, Development and Engineering Center/National Automotive Center (TARDEC/NAC)

†For select platforms



ULTRASHIFT® PLUS:

REDUCES
wear and tear on driveline






PREVENTS
drivetrain damage

ENHANCES
vehicle safety

UltraShift® PLUS:
Improving communication between
transmission, engine, and drivetrain.

UltraShift® PLUS provides a new and greater level of integration of engine, transmission, and drivetrain components, giving you the optimal mix of performance and economy. Our advanced software allows individual units to be configured in one of thousands of different variations for complete customization.

Drivetrain integration:

- Engine 
- Axle and driveshaft 
- Anti-lock braking system (ABS) 
- Automatic traction control (ATC) 
- Custom configurable 

Monitors continuously, making proper adjustments to maximize efficiency



Gear Selection Logic

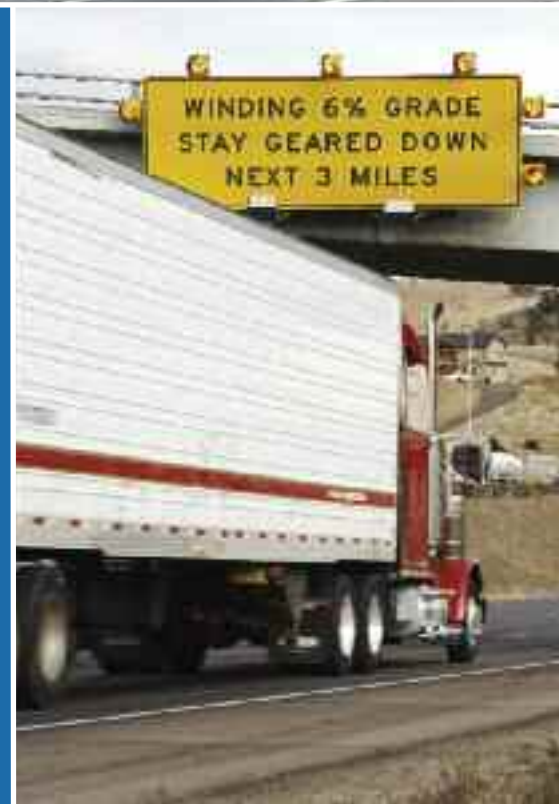
The smartest transmission on the road.

UltraShift® PLUS constantly adapts based on weight of load, grade and power. It begins by automatically selecting the best starting gear, then continues to monitor any changes throughout the ride. Even though the system is automated, the driver is always in control. Manual mode allows the driver to initiate and control shifts – like idling in heavy traffic. Low mode boosts the rpm point at which downshifts occur to maximize engine braking.



LOAD

Real-time load based shifting – for increasing or diminishing load weight



GRADE

Real-time active grade sensing – uphill, downhill, and everything in between



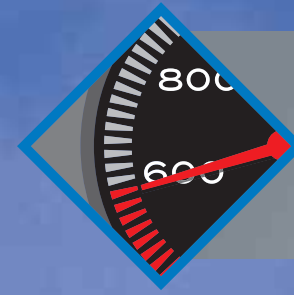
POWER

Automatically tracks vehicle and engine speeds – to meet the needs for power and engine torque

Low Speed Maneuverability

Giving you control when you need it most.

Through extended low and reverse gear ratio coverage, UltraShift® PLUS provides enhanced maneuverability at lower and reverse speeds, giving the driver ultimate control in challenging situations like parking lots, loading docks, and other tight spaces.



Engages at 600 instead of 800 RPMs for better control during critical low speed maneuvers



★ BETTER CONTROL WHILE BACKING

★ SLIDING A 5TH WHEEL

★ SLIDING TANDEM



★ IMPROVED HARD J-HOOK MANEUVERING

★ REDUCED TRUCK AND LOADING DOCK DAMAGE



★ ELIMINATES DAMAGE WHILE COUPLING AND UNCOUPLING

★ ELIMINATES TORQUE LOCK



When we say *PLUS*, we mean it.

In addition to Gear Selection Logic and low speed maneuverability, UltraShift® *PLUS* provides drivers with enhanced performance capabilities like:



ENGINE BRAKING
Provides maximum engine braking to 600 hp or more



HILL START AID
Prevents rolling while on steep grades, allowing for a controlled launch



CREEP MODE
Provides constant ground speed for low speed control

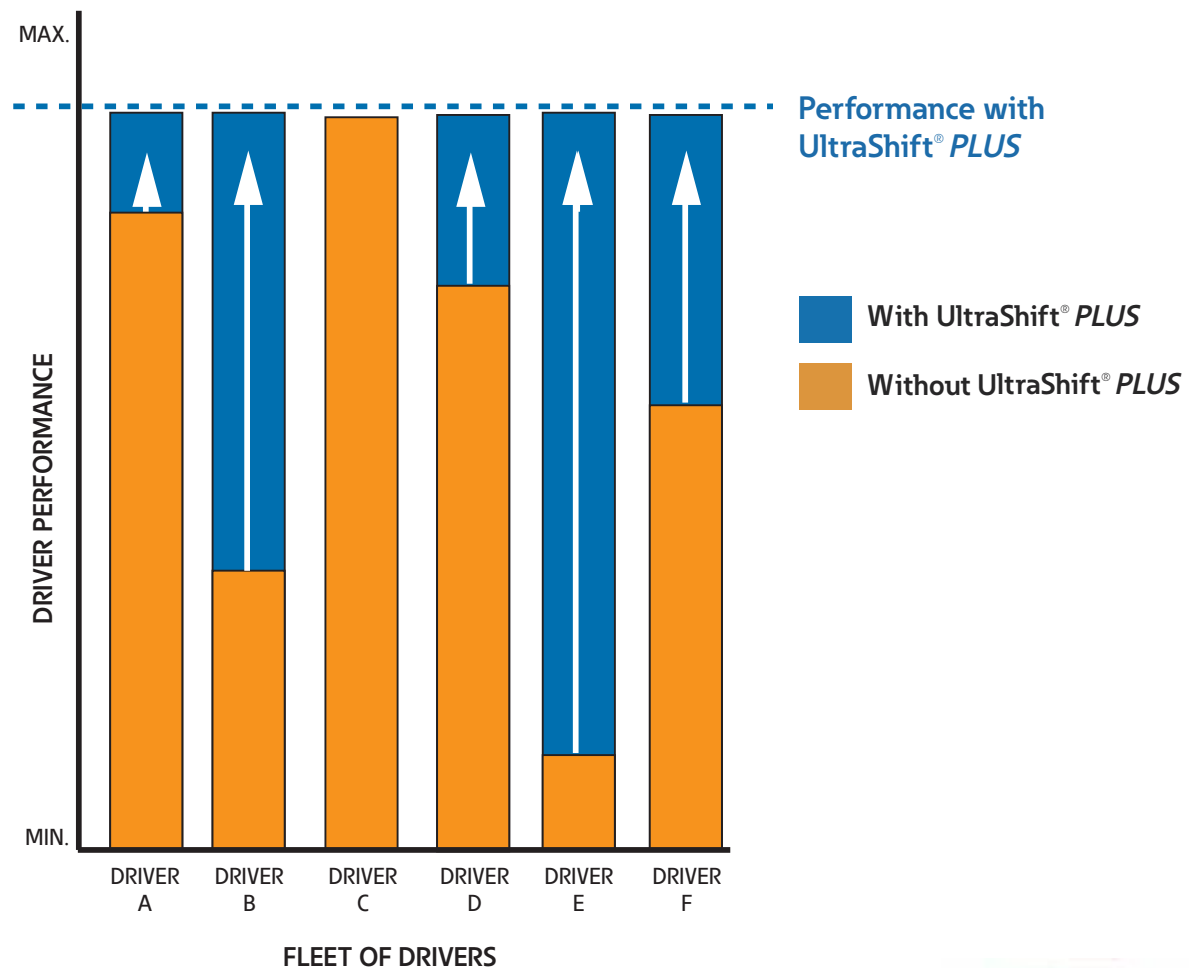


SKIP SHIFTING
Intelligent adaptive shifting lessens wear and tear on drivetrain components



Advantages for fleet managers and drivers

With UltraShift® PLUS, your least experienced drivers will perform like your best when it comes to fuel economy and safety. Driver recruitment and training will be easier too. And when it comes to driver benefits, they will find that their comfort level is improved and fatigue is significantly reduced.



Simple and intuitive driver interface



COMFORT

Less stress than manual shifting – easier to operate, less driver fatigue

SAFETY

Drivers can give their full attention to the road

DRIVER RECRUITMENT

Easier to find qualified drivers because UltraShift® PLUS is simpler to use

DRIVER TRAINING

Less training required to achieve maximum driver performance



Roadranger® service

We go the extra mile.

When you work with a Roadranger® representative, you are working with one of the most experienced, expert, and accessible drivetrain consultants in the business. From helping you choose the best solutions for your business to service after the sale, our team members are with you whenever you need them.

Roadranger offers:

- Specification assistance
- Warranty and policy support
- Extended warranties
- Training – sales, service, parts, and driving
- Marketing programs and branding



OVER 200 ROADRANGER REPRESENTATIVES ACROSS THE NATION OFFER UNMATCHED SERVICE BEFORE, DURING, AND AFTER THE SALE.

★ THOUSANDS OF SERVICE LOCATIONS – 6,000+ FACTORY-TRAINED TECHNICIANS AT 2,000+ DEALER LOCATIONS



- ★ Warranty – Up to 5 year/750,000 mile standard warranty, plus our Extended Warranty for even more coverage
- ★ Convenience – UltraShift® PLUS does not require service by a dedicated service network, and its modular design minimizes cost and time of service

UltraShift® *PLUS* helps save you money

The UltraShift *PLUS* design provides the ideal combination of fuel efficiency, driving ease, and performance, bringing real savings to your operation.

See how it all adds up

Fuel savings

- + Reduced wear and tear on transmission
- + Extended brake and clutch life
- + Less downtime/more uptime generating revenue
- + Protecting cargo from damage
- + Reduced training time
- + Increased driver retention/less turnover
- + Improved driver performance
- + Improved safety/fewer accidents

= \$\$ FLEET SAVINGS

Experience UltraShift® *PLUS*

Learn more about the smartest transmission on the road. Call 1-800-826-HELP (4357) or visit UltraShiftPLUS.com

