

**Eaton® Procion™**  
**Dual-Clutch Automatic Transmission**

EDCO-6F107A  
EDCO-6F107A-B  
EDCO-6F107A-M  
EDCO-6F107A-P

Smart features that deliver  
savings and driver confidence.



**EATON**

*Powering Business Worldwide*



An Eaton Green Solution

# Proving Precision

As a global leader in heavy-duty transmissions and clutches, Eaton has over 100 years of proven success in on-highway and off-highway applications. The newest member of the Eaton transmission lineup is the all-new Precision 7-speed dual-clutch automatic transmission.

Precision boasts the latest in automatic transmission technology, and while we're confident this transmission surpasses the competition at every point of comparison, that's not what has driven our team. Throughout the research and 1.3 million miles of reliability testing, our single focus has been finding out what our medium-duty customers need and want in a transmission... and building it.

## Understanding Dual-Clutch Technology

An important part of learning the benefits of Precision is understanding dual-clutch technology versus a torque converter automatic. A dual-clutch transmission combines the gear efficiency of a manual with the smooth shifting of an automatic. It consists of two independent but interlocked manual transmissions, each with its own independent clutch. Electronically controlled and hydraulic-actuated gear changes are achieved by pre-selecting the correct gear and "swapping" torque between the two clutches. The result is smooth delivery of torque to the wheels. And that's just the beginning.



## Precision: Smart

### Tailored solutions to meet your needs

There are many factors that make the Eaton Precision transmission a smart choice. For starters, Precision is easy to spec. Customers can choose from two models, then tailor the selection to meet specific business needs.

And the Precision is loaded with smart features such as **Eaton Dynamic Shifting**, which uses grade, vehicle weight and driver demand to select optimum shift points for a good balance of economy and performance. Shift points, as well as the economy/performance blend bias, can be customized to meet the unique demands.

Owners and drivers alike will appreciate optional and adjustable **Urge to Move** and **Creep Mode**, which provide best-in-class low-speed maneuverability. Optional and adjustable **Hill Helper** technology prevents roll back or roll forward for up to 3 seconds, based on grade and vehicle weight, allowing for a controlled launch. With Precision, these features can be turned on and off using Eaton's ServiceRanger software. The competition doesn't offer this flexibility.

Precision is a smart choice with three standard **Power Take-Off** openings. Power Take-Off (PTO) functionality can be enabled by dealerships after purchase. This flexibility is a competitive advantage for Precision and enhances value to both first owners and the secondary market.



## Precision Proof Point

“Customers are a little reluctant to try new technology until they see it proven in other forms. We point out that dual-clutch transmissions have been in passenger cars for quite some time. It’s proven. We’re simply scaling it up and making it more durable for the commercial vehicle and bus market.”

– Jeff Carpenter, Precision Chief Engineer



# Procision: Savings

## Better fuel economy + lower maintenance costs = lower cost of ownership

The Eaton Procision transmission is an efficient choice with an impressive savings story. The optimized design delivers an **8 to 10 percent or greater fuel economy improvement** over a torque converter automatic.<sup>1</sup> Procision's fuel economy advantages are even more pronounced in stop-start duty cycles. Eaton Dynamic Shifting uses grade, vehicle weight and driver demand to select optimum shift points for the

best balance of economy and performance. When it comes to maintenance, extended intervals mean less downtime and fewer shop expenses over the life of the vehicle.

The optimized Urge to Move and Creep Mode provide an excellent balance of efficiency and performance. These features can be disabled for even greater fuel economy if desired. Here's a look at additional savings features:

- Transmission load on the engine is actively reduced when the truck is stopped for increased fuel economy
  - Through dual-clutch technology, Procision also delivers reduced RPMs at launch resulting in fuel savings and lower engine noise levels
  - New Eaton synthetic transmission fluid enables **150,000-mile or 4 years lube and filter change intervals** – that's 3 times farther than the published interval for an Allison 2000 series
- In summary, better fuel economy and lower maintenance costs deliver a lower total cost of ownership during the truck's life cycle than the competition.

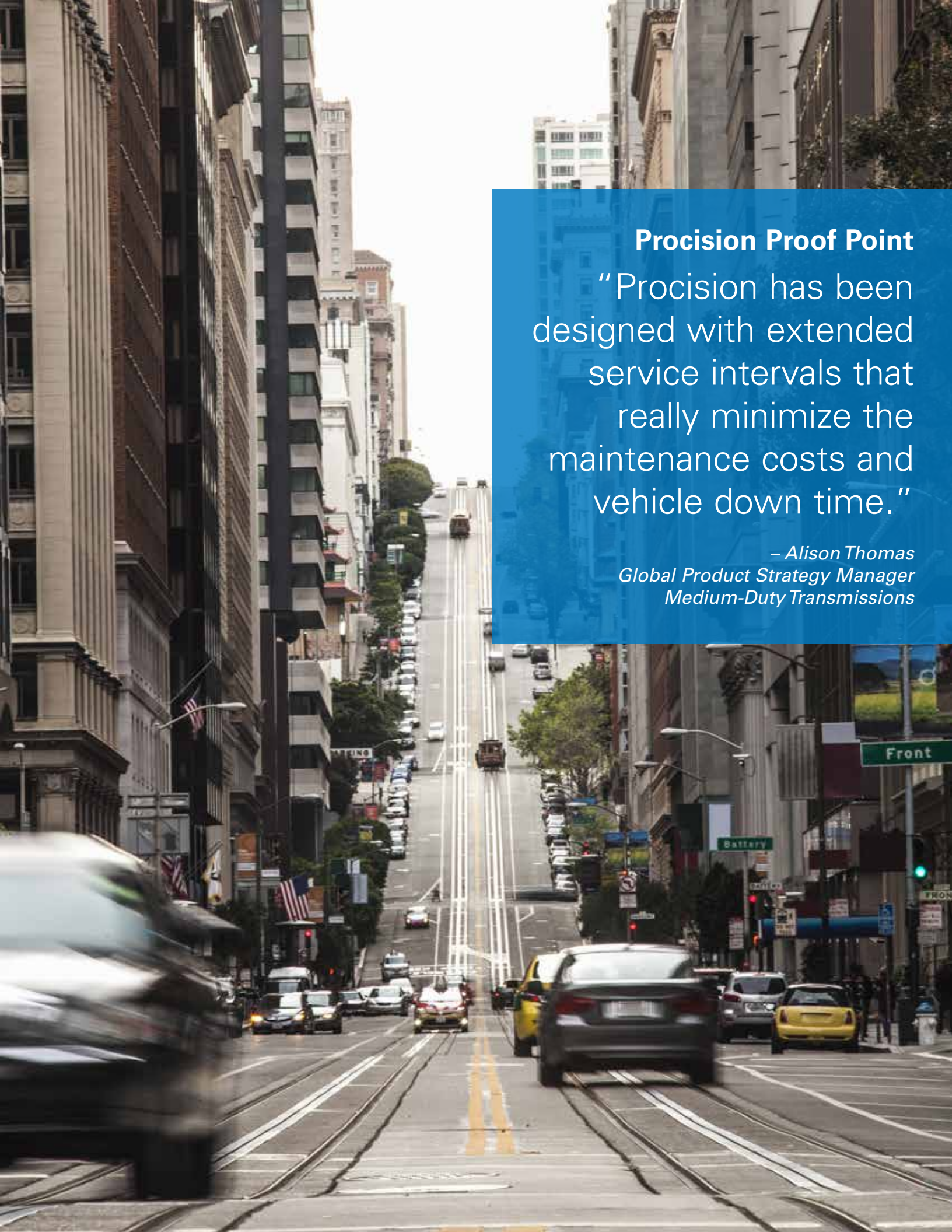
## Procision Key Specifications and Capacities

Procision Model Numbers	EDCO-6F107A-P	EDCO-6F107A
Operating Weight	With Park Pawl 26,000 lbs (11,793 kg)	Without Park Pawl
GVW		33,000 lbs (14,969 kg)
GCW		35,000 lbs (15,875 kg)
Length	30.1 in (765 mm)	
Weight	364 lbs (165 kg)	
Torque	Up to 660 lb-ft (895 Nm)	
Maximum Horsepower	260 hp	
Max Driveline Speed	4300 RPM	
PTO Drive Gears	LH, RH, Rear	
Oil Capacity	Approx. 25 pints (12 liters)	

## Gear Ratios

Ratio	1st	2nd	3rd	4th	5th	6th	7th	R Low	R High	Overall Ratio
	6.50	4.17	2.53	1.55	1.00	.77	.64	6.15	3.95	10.13

<sup>1</sup> Based on third-party testing. Fuel economy results may vary based on driving conditions and load.



## **Procision Proof Point**

“Procision has been designed with extended service intervals that really minimize the maintenance costs and vehicle down time.”

– Alison Thomas  
Global Product Strategy Manager  
Medium-Duty Transmissions



# Procision: Confidence

## More control in all situations

So how can a transmission be engineered and built to instill confidence? Simply put, customers told us that they wanted features that made their trucks easier to drive. For operators with routes on hilly, difficult terrain or those who navigate tight turns and traffic as part of an urban route, the Eaton Procision offers a host of features designed to instill confidence and maximize efficiency. Here's a closer look:

- Brake-pedal-actuated **Tap Down Shifting** gives the driver more control by downshifting on grades or other conditions without removing hands from the wheel or eyes from the road
- **Hill Helper** technology prevents roll back or roll forward for up to 3 seconds, based on grade and vehicle weight, allowing for a controlled launch
- **Urge to Move** and **Creep Mode** control forward and reverse speeds better than a torque converter automatic, and provide best in class low speed maneuverability
- **Reduced RPMs** at launch lowers engine noise levels, making it easier for drivers to hear and be alert at all times
- **Dual-clutch technology** provides a smooth delivery of torque to the rear wheels and preselects the correct gear for drivers, for a familiar driving experience

## Procision Proof Point

“The Eaton Procision is built with a host of features that enable an inexperienced driver to get behind the wheel and operate the truck safely ... with confidence.”

– Bill Gross, Procision Sales Manager



## Precision Proof Point

"With Precision, service can be performed at a local dealer to get trucks back on the road faster. Our competition forces the OEM dealer to send the transmission to their distributorship for anything outside of general maintenance repairs. In addition, Precision's enhanced diagnostics and greater in-chassis serviceability maximize customer uptime."

– Gary Pfister, Manager of Technical Services



## Peace of Mind

### Backed by the support and expertise of the Roadranger network

Eaton products come with built-in peace of mind and the Precision transmission is no exception. Here's a closer look at support, service and warranty.

**Dedicated Support.** America's most experienced powertrain support network with more than 200 dedicated Roadranger professionals provides a complete spectrum of support for Eaton components. For details on training and support, visit [roadranger.com](http://roadranger.com).

**Convenient Service.** With Precision, service can be performed at a local dealer to get trucks back on the road faster. That's something our competitors can't offer. And, enhanced diagnostics and greater in-chassis serviceability maximize customer uptime.

**Impressive Warranty.** The Eaton Precision transmission offers a three-year/unlimited-mile warranty.

**Extend Your Protection.** Two, three or four-year extended protection plans are available for commercial vehicles.

**24/7/365 Call Center.** Representatives from our call center are always available to guide you through the troubleshooting process. Call 800-826-HELP (4357).

**Roadranger**<sup>®</sup>



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

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

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