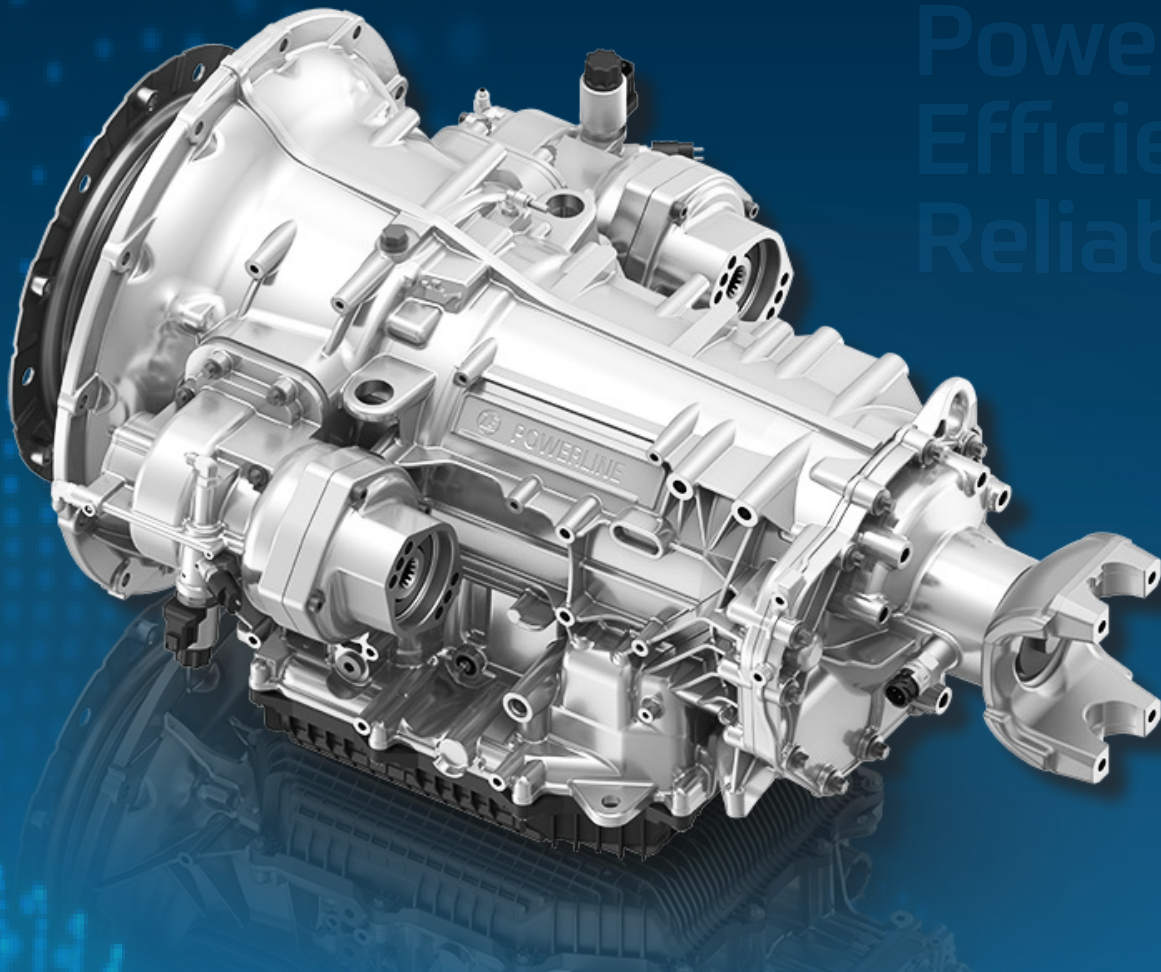


# ZF PowerLine

8 Speed Automatic Transmission

Powerful.  
Efficient.  
Reliable.



# Powerful. Efficient. Reliable

## The World's Only Torque Converter 8 Speed Automatic Transmission Engineered for Commercial Vehicles

### ▶ Rugged Durability with Best in Class Performance

ZF PowerLine Transmission is engineered to deliver best-in-class performance with smooth responsive shifts and improved fuel economy<sub>3</sub>.

### ▶ 8 Speeds and Expert Engineering

ZF's patented 8-speed gear layout provides a wider gear range for increased torque at launch and higher top gear for improved fuel economy. These gear ranges are perfectly stepped and matched with intelligent software further enhancing shift quality, acceleration, and overall performance.

### ▶ Form and Function

ZF PowerLine is designed to minimize moving parts, package all peripheral components inside of the transmission and eliminate excessive external wiring and cables. This thoughtful design architecture further enhances the total cost of ownership of PowerLine equipped vehicles and improves vehicle uptime.

### ▶ Maximum Safety Features

ZF PowerLine is loaded with safety features:

- **Autopark** to ensure park lock is engaged even if the driver forgets to select park or set the parking brake.
- **Hill hold** to prevent roll back when launching from a stop on an incline.
- **Shift by wire with integrated stalk shift selector** enhances ergonomics and improves maneuverability.

### ▶ Reliability


ZF PowerLine is a commercial vehicle transmission based on a proven design with more than 20 million transmissions in the market.


### ▶ Improved Acceleration

Latest hardware innovations such as Twin Torsional Damper Torque Converter design, paired with highly integrated shift algorithms, promote up to 15%<sub>3</sub> enhanced acceleration performance.


Transmission	ZF PowerLine
Speeds	8
Weight	328 lbs. (Dry), 375 lbs. (Installed)
Length	29.7 in.
Gear Ratios	4.89 - 0.64
Overall Ratio	7.65
Reverse Ratio	-4.25
Max Torque Rating	1,000 lb-ft. <sup>1,2</sup>
Oil Capacity	4.49 gallons (17L)
GCWR	57,000 lbs.
Park Lock Capacity	26k GCW Max
PTO Compatibility	Chelsea 272 LH or Z35 RH Muncie Timing TBD
PTO Torque Limits	516 lb-ft. (Single), 738 lb-ft. (Max Dual Limit)
Shifter	OEM Preferred Stalk
TCU	Fully Integrated (Shifting by Wire)

**CLASS**

**5** 

**6** 

**7** 

**Baby 8** 

- 1 - Maximum torque requires specific application release depending on duty cycle.
- 2 - Maximum torque requires engine torque management / torque limitation.
- 3 - Compared to today's 6 speed torque converter automatic transmissions.