

## INTRODUCING THE *integrated* DETROIT™ POWERTRAIN.



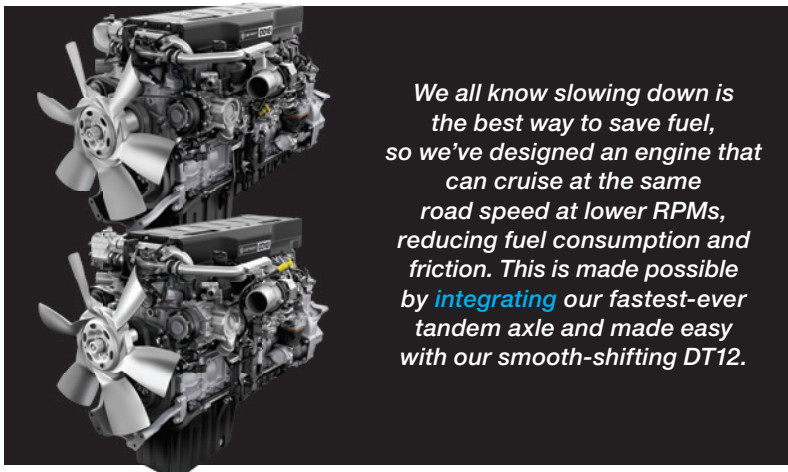
Only one company can deliver this level of *integration*.

Detroit has designed, engineered and manufactured the engine, transmission and axles to work together to provide the optimal powertrain solution for all of your business needs. Available in the Freightliner Cascadia® Evolution and the Western Star® 5700.

Integrated Detroit Powertrain Ratings		DD15 <i>i</i>	DD13 <i>i</i>
DETROIT™ ENGINE	Power	400 HP @ 1625 RPM	400 HP @ 1625 RPM
	Torque	1750 lb-ft @ 975 RPM	1750 lb-ft @ 975 RPM
	Displacement	906 cu in (14.8 L)	781 cu in (12.8 L)
DETROIT™ DT12™ TRANSMISSION	Transmission	Direct Drive	Over Drive
	Torque Input	1750 lb-ft	1750 lb-ft
	GCW Rating	80,000 lbs (36,300 kg)	80,000 lbs (36,300 kg)
DETROIT™ DRIVE AXLE	6x4 Configuration	40,000 lb Tandem (model 4)	40,000 lb Tandem (model 4)
		2.41 Rear Axle Ratio	2.85 Rear Axle Ratio
	6x2 Configuration	40,000 lb Single Drive w/ Tag Axle (model 6)	40,000 lb Single Drive w/ Tag Axle (model 6)
		2.41 OR 2.28* Rear Axle Ratio	
DETROIT™ STEER AXLE	Detroit Steer Axle <i>available ratings listed</i>	12,000 lb, 12,500 lb, 13,300 lb	12,000 lb, 12,500 lb, 13,300 lb

\*2.28 rear axle ratio requires driveline changes

## DD15® or DD13® ENGINE



*We all know slowing down is the best way to save fuel, so we've designed an engine that can cruise at the same road speed at lower RPMs, reducing fuel consumption and friction. This is made possible by **integrating** our fastest-ever tandem axle and made easy with our smooth-shifting DT12.*

- Dropping engine speed reduces the number of fuel injections, dramatically improving fuel economy
- **Integrated** with DT12 automated manual transmission and fast axle ratio, this engine torque curve keeps you in top gear longer
- Lower RPMs at cruise speed reduces friction, leading to higher efficiency AND reliability
- The six-blade cooling fan design draws less power, so the engine doesn't burn as much fuel

### COMPLIANCE

- The DD15 and DD13 engines are compliant with 2017 Greenhouse Gas (GHG17) requirements

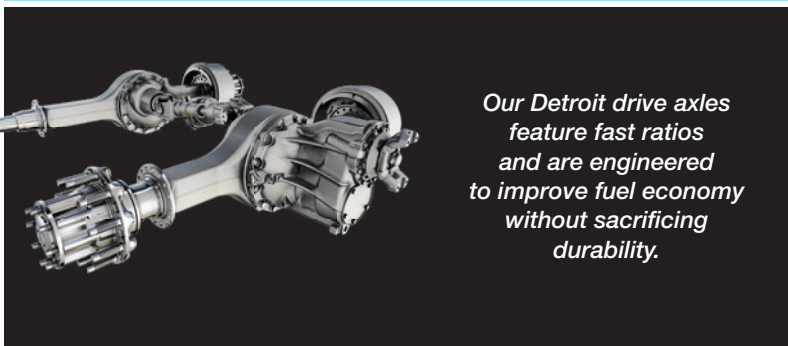
## DT12™ TRANSMISSION



*With our DT12 transmission linking engine to axles, the **integrated** Detroit Powertrain is not only strong and efficient, but smooth and safe to operate as well. With 12 tightly spaced speeds, the DT12 always knows where the sweet spot is.*

- Intelligent Powertrain Management (IPM) **integrates** terrain maps into engine and transmission functions so the truck works with its surroundings, not against them
- eCoast is **integrated** with the downsped engine, now working at 500 RPM, adding to fuel savings
- Direct drive offers the most efficiency while cruising in top gear
- An **integrated** communication network allows the DT12 to share damage-reducing information, such as clutch overloading and active driveline protection

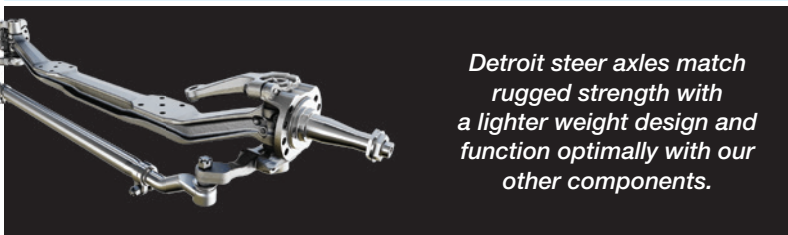
## DETROIT™ DRIVE AXLES



*Our Detroit drive axles feature fast ratios and are engineered to improve fuel economy without sacrificing durability.*

- Available in a 6x4 axle configuration with a 2.41 or 2.85 axle ratio
- Available in a 6x2 single drive and tag axle configuration with a 2.41 or 2.28 axle ratio
- The 6x2 single drive with tag axle configuration is **integrated** with the downsped torque curve and a direct-drive transmission to deliver better fuel economy regardless of cruise speed
- The 6x2 single drive with a non-driven tag axle configuration saves 380 pounds and reduces complexity

## DETROIT™ STEER AXLES



*Detroit steer axles match rugged strength with a lighter weight design and function optimally with our other components.*

- Available in 12k, 12.5k and 13.3k ratings for tailored weight distribution
- Needle bearings won't damage the kingpins and are designed for the life of the axle