

JD18 Engine

522 – 677 kW (700 – 908 hp)



JOHN DEERE

Expanded power

John Deere power range extended.

New to the John Deere lineup, the JD18 extends the rated power range to 522 – 677 kW (700 – 908 hp).

Uptime-focused controls.

Improved John Deere model-based controls offer better diagnostic capabilities, enabling future prognostics and the ability to target the source of engine performance issues.

Designed for extreme durability.

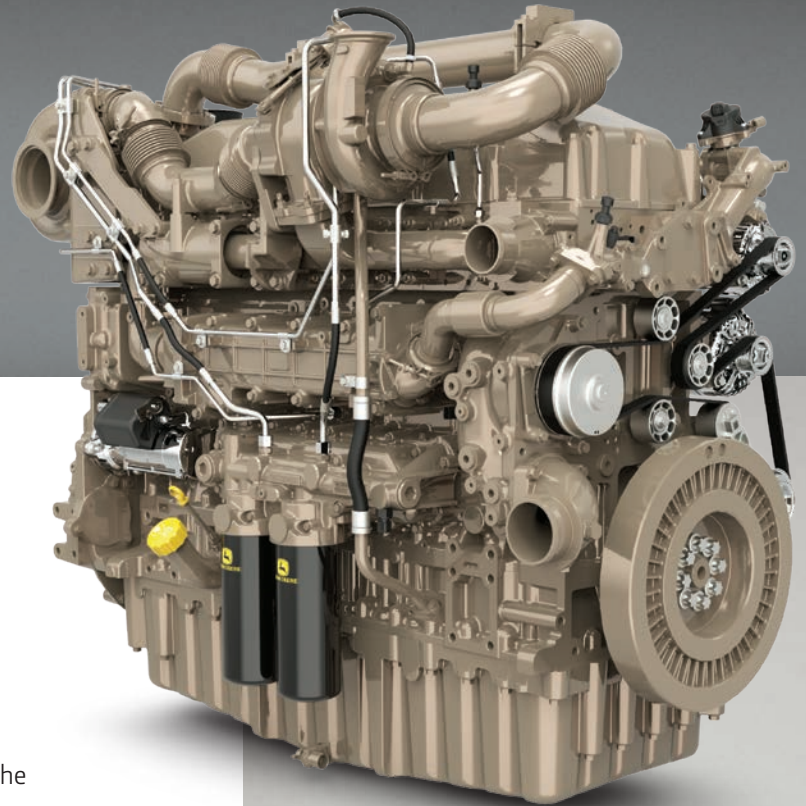
The JD18 features a bedplate design, providing structural benefits for extreme durability. It is built for 20,000 hours of operation with the ability to be rebuilt two times.

Serviceability and repairability.

The JD18 engine was designed with ease of service and repair in mind. Hydraulic lash adjusters offer a maintenance-free valve train, eliminating the need to reset lash.

Fluid management.

The JD18 features new combustion technology which allows John Deere to offer an engine in the 522 – 676 kW (700 – 907 hp) power range without aftertreatment. Without the need for DEF, the customer has one less fluid to manage. The high-pressure common-rail (HPCR) fuel system allows the engine to deliver optimized fluid consumption. And the Diamond Like Coating (DLC) improves biodiesel compatibility and system robustness.



Reliability through innovation.

The new combustion technology offers a simplified air system, with fixed and wastegate turbos, allowing the engine to meet emissions requirements without applying aftertreatment. This feature provides simplified engine integration and a compact package size.

Auxiliary power.

It features a rear gear train for excellent direct power and quiet operation. With options for up to two rear auxiliary drives, the JD18 produces a total of 902 Nm (665 lb-ft) maximum torque.

JD18	
Performance data	
Rated power	522 – 677 kW (700 – 908 hp)
Rated speed	1900 rpm
Peak torque	4250 Nm (3135 lb-ft) @ 1400 rpm
Low idle	800 rpm
Off-level capability	35°/45°
Service interval	750 hours
General data	
Type	6-cylinder, in-line, 4-stroke, water-cooled
Bore & stroke	148 x 174 mm (5.8 x 6.8 in)
Fuel system	Electronic high-pressure common-rail (HPCR)
Aspiration	Turbocharged, air-to-air aftercooled
Turbo	Series turbochargers (fixed, wastegate)
EGR	External cooled exhaust gas recirculation (EGR)
Dimensions (L* x W x H)	1750 x 920 x 1507 mm (69 x 36 x 59 in)
Weight	2119 kg (4672 lb)
Emissions level	EPA Final Tier 4/EU Stage V
Aftertreatment	None

*Preliminary information. *Engine length without fan drive. Specifications are subject to change. Dimensions may vary based on options selected.*

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