

JD18 Engine

522 – 677 kW (700 – 908 hp)



JOHN DEERE

Expanded power

John Deere power range extended.

The JD18 extends the power range of the John Deere engine lineup to **677 kW (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.

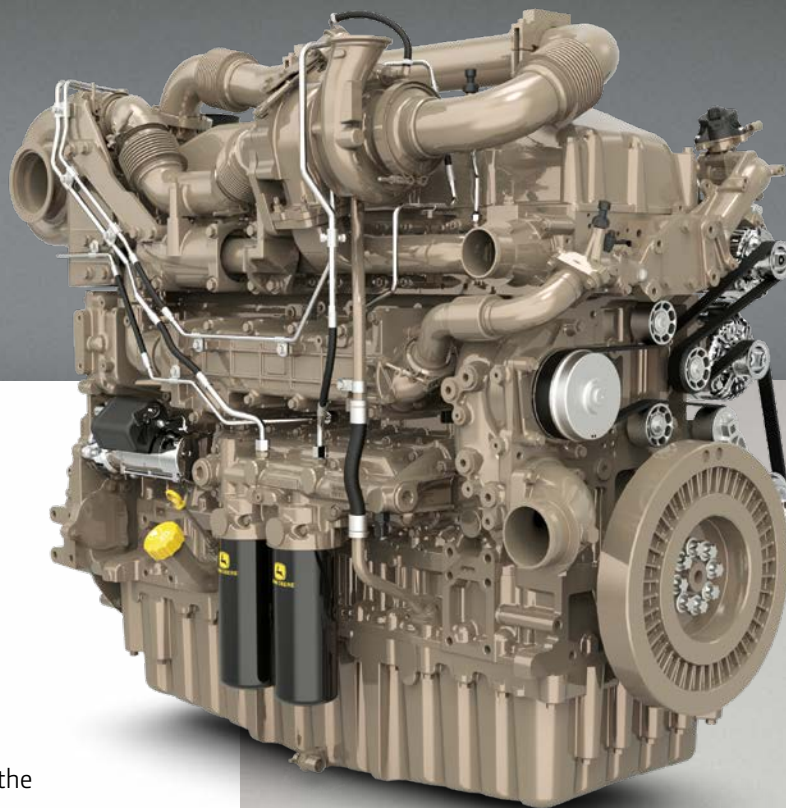
The JD18 features a bedplate design, providing structural benefits for rugged applications. Heavy-duty oversized components, steel pistons, and wet-type cylinder liners provide **long engine life**.

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 – 677 kW (700 – 908 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. The JD18 is **compatible with renewable diesel fuel and biodiesel blends**.



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.

JD18X	
Engine model	6180CI510
General data	
Type	6-cylinder, In-line, 4-valve, 4-stroke diesel, Water-cooled
Displacement	18.0L
Fuel system	Electronic high-pressure common-rail (HPCR)
Aspiration	Turbocharged, Air-to-air aftercooled
Turbocharger	Series (fixed, wastegate)
Performance	
Rated power	522 – 677 kW (700 – 908 hp) @ 1900 rpm
Peak torque	3317 – 4250 Nm (2448 – 3137 lb-ft) @ 1400 rpm
Low idle	800 rpm
Off-level capability	35° Continuous/45° Intermittent
Service interval	750 – 1000 hours [†]
Emissions technology	
Certification	EPA Final Tier 4/EU Stage V
EGR	External cooled exhaust gas recirculation (EGR)
Aftertreatment	None
Specifications	
Dimensions (L x W x H)	1750 x 920 x 1507 mm (69 x 36 x 59 in)
Weight	2119 kg (4672 lb)

Preliminary information. Specifications are subject to change. Dimensions may vary based on options selected.

[†]For engines using John Deere engine oil, filters, and oil sampling.

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