

JD4 Engine

63 – 120 kW (84 – 161 hp)



JOHN DEERE

Up and coming

Engine performance.

New to the John Deere engine lineup, the JD4 provides up to 120 kW (161 hp) of power. It features a rear gear train that offers customers **low noise and higher PTO power**. The engine also has an extended single turbo range and provides 700 Nm (516 lb-ft) of maximum torque for improved high-load capacity and productivity.

Reliability and uptime.

The JD4 offers a more reliable diesel exhaust fluid (DEF) delivery system. The engine also features **extended fluid service intervals of 750 hours (1,000 hours possible)**, reducing maintenance costs for customers. Hydraulic lash adjusters decrease valve wear and eliminate valve lash maintenance.

Increased auxiliary power.

The JD4 engine offers up to two auxiliary drive pads, providing **three times more available auxiliary power**. This additional power allows flexibility and enables off-boarding for electrification and hybrid applications.

Worldwide emissions compatibility.

The JD4 will be **compatible with EU Stage IIIA – Stage V emissions** levels through common interfaces. The engine is low-NOx-ready with planned external cooled exhaust gas recirculation (EGR) and a single overhead cam shaft valvetrain. The JD4 engine is also **compliant with U.S. EPA Final Tier 4 and EU Stage V with no EGR**.



Customer value.

The JD4 offers a **low purchase price and integration cost**, with performance benefits that contribute to overall customer value.

Compact engine package.

The JD4 features a **20% to 30% reduction in package size** and a more than **100 kg (220 lb) reduction in weight** compared to the John Deere 4.5L single turbo engine. This compact design gives customers improved visibility and fuel efficiency.

JD4

Performance data	
Rated power	63 – 120 kW (84 – 161 hp)
Rated speed	2200 rpm
Peak torque	700 Nm (516 lb-ft) @ 1400 – 1500 rpm
Low idle	800 – 1000 rpm
Off-level capability	35°/45°
Service interval	750 hours minimum
General data	
Type	4-cylinder, in-line, 2-valve
Bore & stroke	99 x 128 mm (3.9 x 5.0 in)
Fuel system	Electronic high-pressure common-rail (HPCR)
Aspiration	Turbocharged, air-to-air aftercooled
Turbo	Wastegate
EGR	External cooled exhaust gas recirculation (EGR) (Stage III A/Tier 3 only)
Dimensions (L x W x H)	700 x 680 x 810 mm (28 x 27 x 32 in)
Weight	< 460 kg (< 1,014 lb)
Emissions level	EU Stage IIIA – Stage V, EPA Final Tier 4

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

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JD9 Engine

205 – 343 kW (275 – 460 hp)



JOHN DEERE

Powerful integration

Built on a solid foundation.

The new JD9 engine expands on the proven performance of the existing John Deere PSS 9.0L engine, offering uncompromising reliability and power while streamlining complexity and installation costs.

More power.

The JD9 expands our 9.0L lineup by stretching the maximum power output up to 343 kW (460 hp) and peak torque up to 1883 Nm (1389 lb-ft).

Value choices.

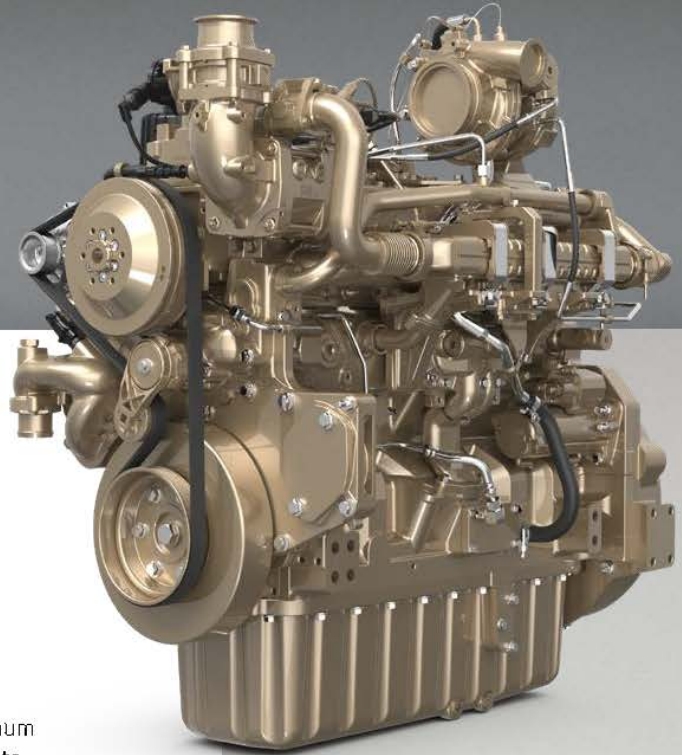
Single- and dual-turbo configurations provide users with versatility to meet specific needs. The new single-turbo option improves integration and packaging for a cost-effective power solution.

Enhanced reliability.

The engine's simplified in-line aftertreatment system reduces connection points and streamlines integration. By eliminating and reducing various ATD sensors and parts, the JD9 provides greater reliability. Model-based controls also allow for improved fuel consumption and transient response.

Connected uptime.

The JD9 engine comes equipped with John Deere Connected Support™ technology. There are no subscription fees or ongoing expenses. With your approval, this proactive monitoring system allows technicians to remotely diagnose issues to help keep your machines running strong.



Simplified aftertreatment.

The JD9 is compliant with U.S. EPA Final Tier 4, CARB, and EU Stage V emissions regulations. It features a durable in-line aftertreatment system with fewer connection points than the previous generation for ease of application integration.



JD9P		JD9X
Engine model	6090HI550	6090CI551
General data		
Type	6-cylinder, In-line, 4-stroke diesel, Water-cooled	
Displacement	9.0L	
Fuel system	Electronic high-pressure common-rail (HPCR)	
Cylinder head	4-valve	
Aspiration	Turbocharged, Air-to-air aftercooled	
Turbocharger	VGT	Series
Performance		
Rated power	205 – 280 kW (275 – 375 hp) @ 2000 rpm	280 – 343 kW (375 – 460 hp) @ 2000 rpm
Peak torque	1600 Nm (1180 lb-ft) @ 1600 rpm	1883 Nm (1389 lb-ft) @ 1600 rpm
Low idle	800 rpm	
Off-level capability	35° Continuous/45° Intermittent	
Service interval	Up to 500 hours	
Emissions technology		
Certification	EPA Final Tier 4/EU Stage V	
EGR	External cooled exhaust gas recirculation (EGR)	
Aftertreatment	In-line DOC/DPF/SCR - Size 4	In-line DOC/DPF/SCR - Size 5
Specifications		
Dimensions (L* x W x H)	1282 x 795 x 1208 mm (50 x 31 x 48 in)	1315 x 763 x 1194 mm (52 x 30 x 47 in)
Weight	1468 kg (3237 lb)	1521 kg (3353 lb)

Preliminary information. *Engine length without fan drive.

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JOHN DEERE

JohnDeere.com/JDPower

JD14 Engine

300 – 510 kW (402 – 684 hp)



JOHN DEERE

Proven and ready

Solid performance.

The JD14 engine provides more power per liter than I3.5L configurations. With **14% higher power and 11% increased peak torque**, it allows your machines to **work faster, lift more, and operate more efficiently** than ever before. This engine has been shown to increase harvesting capacity by up to 45% on John Deere X Series Combines.

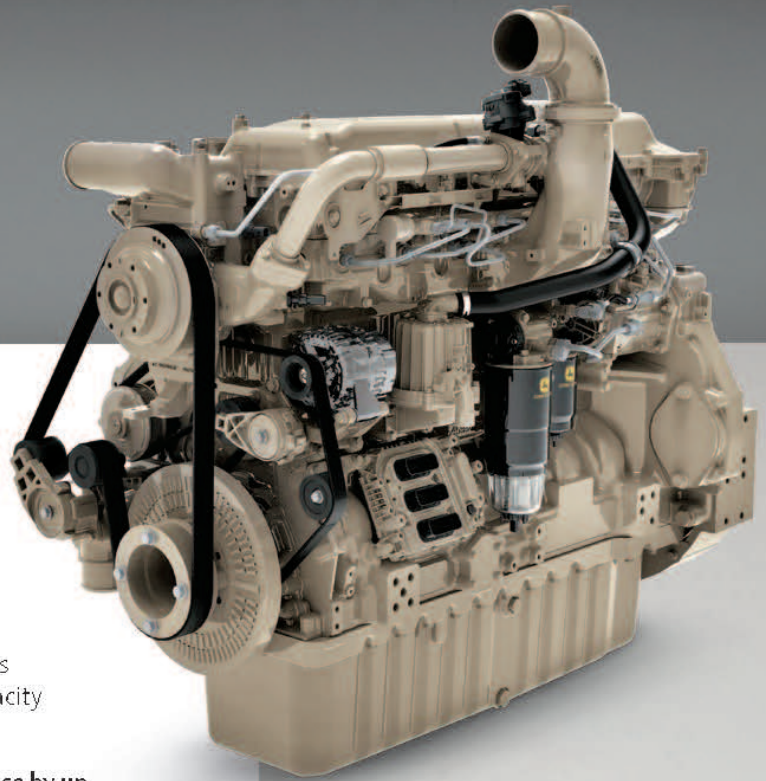
The JD14 features a rear gear train that **reduces noise by up to 3 decibels** compared to the I3.5L engine. That's half as loud, greatly improving operator comfort.

Easy to maintain. Low service costs.

John Deere engineers streamlined common maintenance steps on the JD14 engine. **Hydraulic lash adjusters decrease valve wear** and provide longer engine life while eliminating valve lash maintenance. An **advanced control system analyzes sensor data** to keep operators working without interruption.

Prognostic capabilities are built into the engine to help users identify potential problems and schedule service prior to downtime.

Proven John Deere cooling packages are available with JD14 engines for easy, low-cost integration.



Field proven.

John Deere JD14 engines have been working more than **47,000 hours at high load** in a variety of applications, including John Deere combines and sugar cane harvesters. Likewise, they've demonstrated more than **14,000 hours of torque and lugging power** in tractor operations. So, when you install a John Deere JD14 engine in your application, you can be confident in the performance it delivers.

Many of these operating challenges were even more extreme than typically confronted in the field: repeating **high to low loads** to confirm thermal durability, **block loading** to show strength, and **ultra-low idling** to demonstrate oil pressure capabilities.

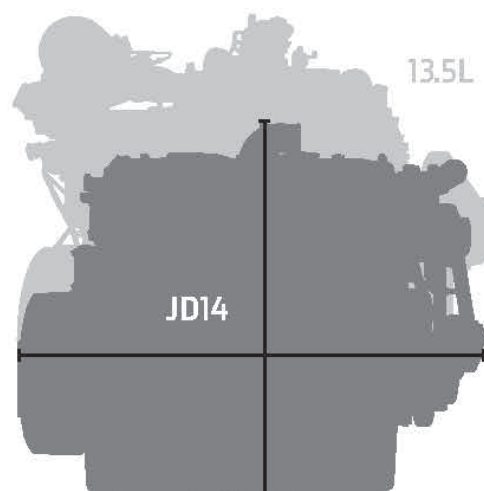
Operational flexibility.

The compact JD14 engine is shorter and narrower to fit in more machines with minimal reconfiguration.

It provides up to 130 kW (174 hp) through forward auxiliary connections and via an integrated rear SAE-C PTO.

It has common connection points across different emissions configurations for the U.S. and Europe and is available in single- and dual-turbo configurations to maximize packaging flexibility.

Our durable inline aftertreatment provides unified packaging to reduce connection points and improve reliability. It is available with a DPF for Stage V applications and with no DPF for Final Tier 4 applications.



JD14	
Performance data	
Rated power	300 – 510 kW (402 – 684 hp)
Rated speed	2100 rpm
Peak torque	3050 Nm (2250 lb-ft) @ 1550 rpm
Continuous rating	436 kW (585 hp)
General data	
Type	6-cylinder, in-line, 4-stroke, water-cooled
Bore & stroke	132 x 165 mm (5.2 x 6.5 in)
Fuel system	Electronic high-pressure common-rail (HPCR)
Aspiration	Turbocharged, air-to-air aftercooled
Turbo	Single (fixed) or series (fixed, wastegate)
EGR	External cooled exhaust gas recirculation (EGR)
Dimensions (L* x W x H)	1446 x 890 x 1366 mm (57 x 35 x 54 in)
Weight	1468 kg (3237 lb) single turbo 1521 kg (3353 lb) series turbo
Emissions level	EPA Final Tier 4/EU Stage V

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JOHN DEERE



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.

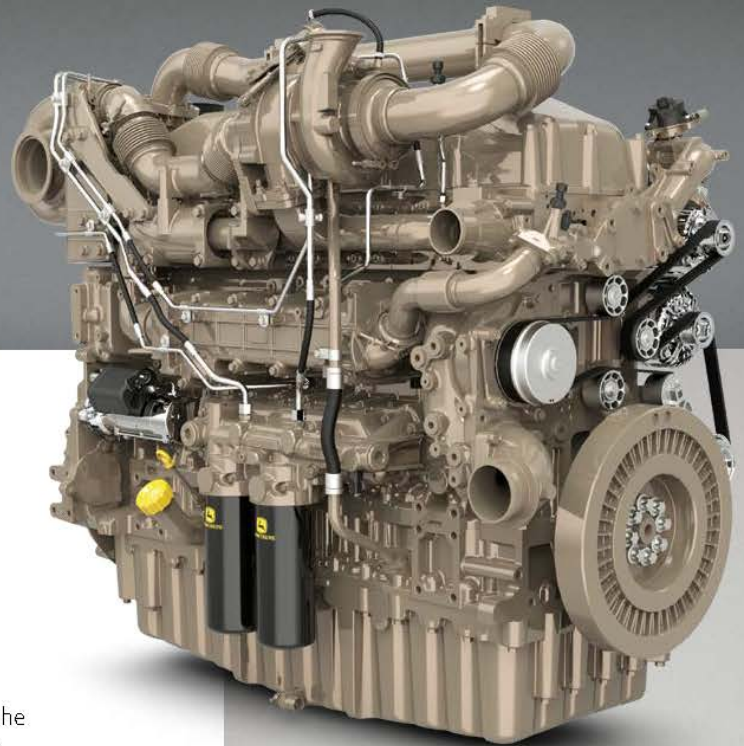
The JD18 features a bedplate design, providing structural benefits for extreme durability. It is built for 20,000 hours of operation with the ability to be rebuilt two times.

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 – 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. 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

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