

JD14 Engine

300 – 510 kW (402 – 684 hp)



JOHN DEERE

Proven and ready

Solid performance.

The JD14 engine provides more power per liter than 13.5L 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 13.5L engine. That's half as loud, greatly improving operator comfort.

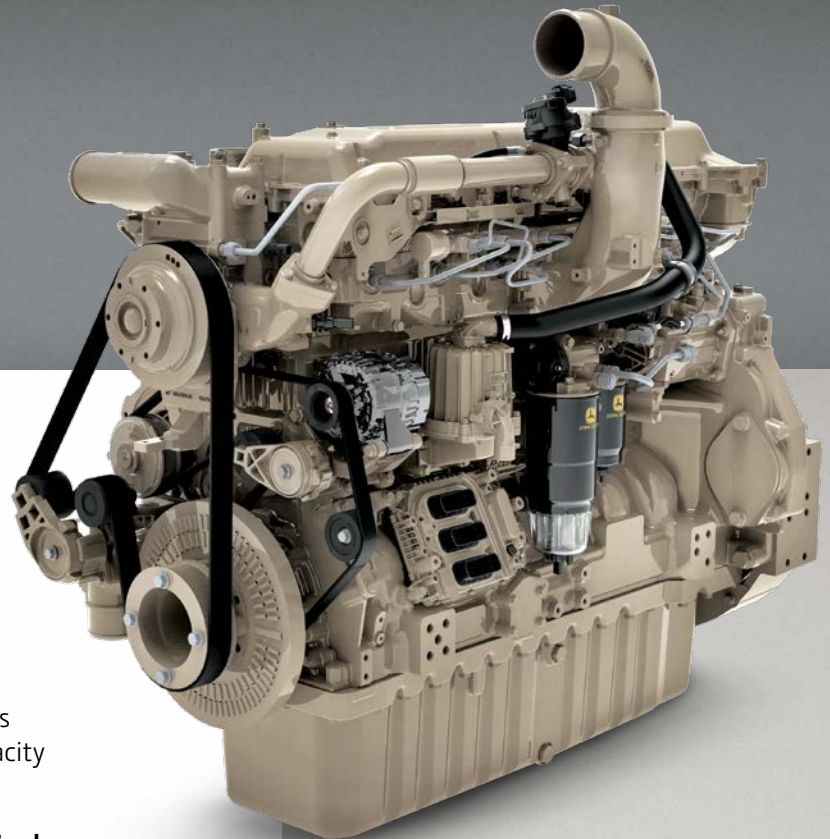
Easy to maintain. Low service costs.

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.

The JD14 is **compatible with renewable diesel fuel and biodiesel blends**.



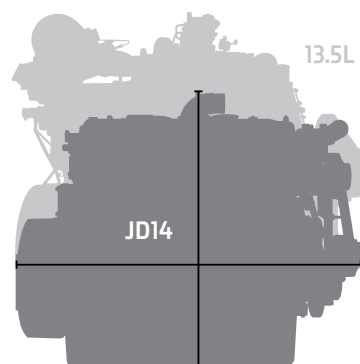
Field proven.

John Deere JD14 engines have been working more than **11 million hours at high load** in a variety of applications. Likewise, they've demonstrated more than **6 million 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. **Durable in-line aftertreatment** provides unified packaging and is available with a DPF for Stage V applications and with **no DPF for Final Tier 4 applications**.



Engine model	JD14X IHR	JD14P IHR	JD14X ILR	JD14P ILR
General data				
Type	6-cylinder, In-line, 4-valve, 4-stroke diesel, Water-cooled			
Displacement	13.6L			
Fuel system	Electronic high-pressure common-rail (HPCR)			
Aspiration	Turbocharged, Air-to-air aftercooled			
Turbocharger	Series	Wastegate (WGT)	Series	Wastegate (WGT)
Performance				
Rated power	391 – 510 kW (525 – 684 hp) @ 2100 rpm	300 – 410 kW (402 – 550 hp) @ 2100 rpm	391 – 510 kW (525 – 684 hp) @ 2100 rpm	300 – 410 kW (402 – 550 hp) @ 2100 rpm
Peak torque	2495 – 3050 Nm (1840 – 2250 lb-ft) @ 1550 rpm	1986 – 2510 Nm (1465 – 1851 lb-ft) @ 1550 rpm	2495 – 3050 Nm (1840 – 2250 lb-ft) @ 1550 rpm	1986 – 2510 Nm (1465 – 1851 lb-ft) @ 1550 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		EPA Tier 3 (NSPS)/ECE R96	Non-certified
EGR	External cooled exhaust gas recirculation (EGR)			No EGR
Aftertreatment	In-line DOC/DPF/SCR (Final Tier 4 ratings available with DOC/SCR aftertreatment)		No aftertreatment	
Specifications				
Dimensions (L* x W x H)	1498 x 890 x 1367 mm (59 x 35 x 54 in)	1498 x 890 x 1366 mm (59 x 35 x 54 in)	1464 x 863 x 1360 mm (58 x 34 x 54 in)	1494 x 858 x 1360 mm (59 x 34 x 54 in)
Weight	1521 kg (3353 lb)	1468 kg (3236 lb)	1552 kg (3422 lb)	1461 kg (3221 lb)

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

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