

Construction Applications

Diesel engines and drivetrain components



JOHN DEERE

You get more with John Deere





More satisfaction

John Deere is a leader in off-highway engine power

Moving heavy dirt or lifting bulky materials, often in extreme heat or cold, requires engines and drivetrain components that are built to withstand the challenges of off-highway applications. John Deere is a leader in developing world-class diesel engines and integrating them into tough applications. We have more than 85 years of off-highway experience.

From the factory to the field

John Deere has been designing and building durable diesel engines since 1949. We have built more than 5 million off-highway engines in the United States, France, Mexico, India, and Argentina factory locations. We also build thousands of configurations of drivetrain components in the United States and Mexico.

Every engine is built to order. Our production factories respond to OEM needs by offering customized engine options — everything from flywheels and fan drives to engine paint color.

This commitment to personal service doesn't stop when an engine leaves the factory. John Deere provides expert engineering assistance to help OEMs integrate engines and drivetrain components into their equipment. By working together, we can make sure the entire machine performs in the field, on the jobsite, or wherever it travels.

Day after day

John Deere engines are built to handle tough, off-highway applications — no matter the task. Our engines create a perfect balance between high performance, fuel economy, and adherence to emissions standards — all while providing reliable engine power day after day and year after year.

More applications

More applications

John Deere off-highway engines power literally thousands of applications — many of them in not-so-nice conditions such as dusty fields, rugged construction sites, and extreme temperatures. Think of any harsh location and a John Deere engine is probably working there. As a leader in off-highway engines, John Deere is uniquely positioned to provide technologies that meet the distinct demands of these applications.

John Deere engines and drivetrain components are distributed to thousands of OEMs worldwide for use in construction, industrial, agricultural, forestry, material handling, and mining equipment. Tens of thousands of John Deere-powered machines go to work every day in applications such as portable air compressors, loaders, excavators, crushers, drills, rollers, forklifts, and many more.





More flexibility

Ever try to drive a machine without a transmission? When it comes to integrating engines and drivetrain components, John Deere thinks of everything. Our products are designed to fit a variety of applications through a unique mix of engine options and smart integration. We've developed many ways to minimize complexity and maximize installation flexibility.

- **Advanced electronics.** A single, more powerful engine ECU enhances equipment functionality and opens the door for expanded software capabilities.
- **Engine packaging.** With the flexible options available, you can place John Deere engines in varying enclosures. Some construction OEMs have even been able to improve visibility and turning radius on their equipment because of the fit with John Deere engines.

More performance

We challenged our designers to develop a new line of engines that delivers even more power, durability, performance and fuel economy than the industry-leading engines they replace. They didn't let us down. New PowerTech™ engines for Interim Tier 4/Stage III B offer much more than cleaner air.

- **More power and increased performance.** John Deere boosts engine power with a variety of turbocharger configurations that precisely match your application needs.
- **World-class fuel economy.** With advancements in turbocharger, fuel system, cooled EGR, fan drive and charge-air-cooler technology, PowerTech engines continue to deliver world-class fuel economy.
- **Reduced noise.** A combination of improvements to the engine, cooling system, and exhaust system have dramatically reduced noise and vibration. Not hearing it is believing it.
- **Trouble-free operation and long-running durability.** Proven on the job in thousands of applications.
- **Proven technologies.** We are expanding on our off-highway experience and success with cooled exhaust gas recirculation (EGR), variable geometry turbochargers (VGT), and advanced fuel systems.



More for your money

Can you afford not to run John Deere? When you add up the lack of downtime, the fuel savings, the performance, and the longevity of John Deere engines — you end up with one of the lowest costs of ownership in the industry.

Time and again, John Deere proves their commitment to keeping your costs low. When it was time to choose technologies to meet Interim Tier 4/Stage III B emissions regulations, we knew that keeping operating costs low was of utmost importance to equipment owners. Our technology path is proven, simple and less costly to operate.

More customized technology

Fuel efficiency

At John Deere, we take fuel efficiency very seriously. John Deere engineers utilize a combination of innovative engine designs and new technologies to improve fuel economy and performance — while meeting emissions regulations. Four-valve cylinder heads, low-friction pistons, and advanced electronic controls are just some of the tools we use to help construction and industrial equipment owners reduce their fuel bills.

Real reliability

Sturdy, compact engine blocks are the foundation of our reliability and durability. We have expanded on this strength by incorporating many technological advancements. For example, dynamically balanced moving parts such as the crankshaft make the engine quieter and limit vibrations. In addition, several components such as the thermostat housing and the air intake manifold have been built into the cylinder head to reduce the possibility of leaks.

Total quality

From our continuing research and development efforts to our rigorous manufacturing processes, quality is built into every component of a John Deere engine. The result has been 5 million engines manufactured throughout the world. They deliver performance, fuel efficiency, reliability, emissions compliance, and easy installation — a combination of engine qualities that you can't find just anywhere.



Log on to www.JohnDeere.com/dealer to find the service dealer nearest you.

More customer support

The power of a worldwide support network

With John Deere, you never have far to go to find expert assistance and advice. The more than 4,000 service locations throughout the world give you peace of mind that you can get service when and where you need it.

Easy maintenance

John Deere engines are designed for easy maintenance. Automatic belt tensioners minimize maintenance cost and increase belt life. Larger fuel filters, water separators, fuel pressure sensors, and fault code diagnostics optimize filter life. John Deere engines feature a 500-hour oil change and filter interval. And single-side service points make it easy to check and maintain fuel filters, oil filters, starters, and fluid levels.

Remanufactured components

Reduce potential operating downtime and repair costs with John Deere remanufactured engines and engine components. Remanufactured components provide a high-quality, quick replacement at a lower cost.

Fast parts delivery

You can count on genuine John Deere parts. Our worldwide parts distribution system has overnight delivery available in most areas of the world. For even faster service, our dealers keep many maintenance and replacement parts in stock to get you back to work immediately.

A warranty you can count on

Equipment operators can't afford downtime or unexpected repairs. That's why we offer 2-year/2,000-hour and 1-year/unlimited-hour warranties. These warranties take effect the day the engine begins operation. In addition, an extended 5-year/5,000 hour warranty is available under certain conditions. Be sure to register your engine for warranty support.

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