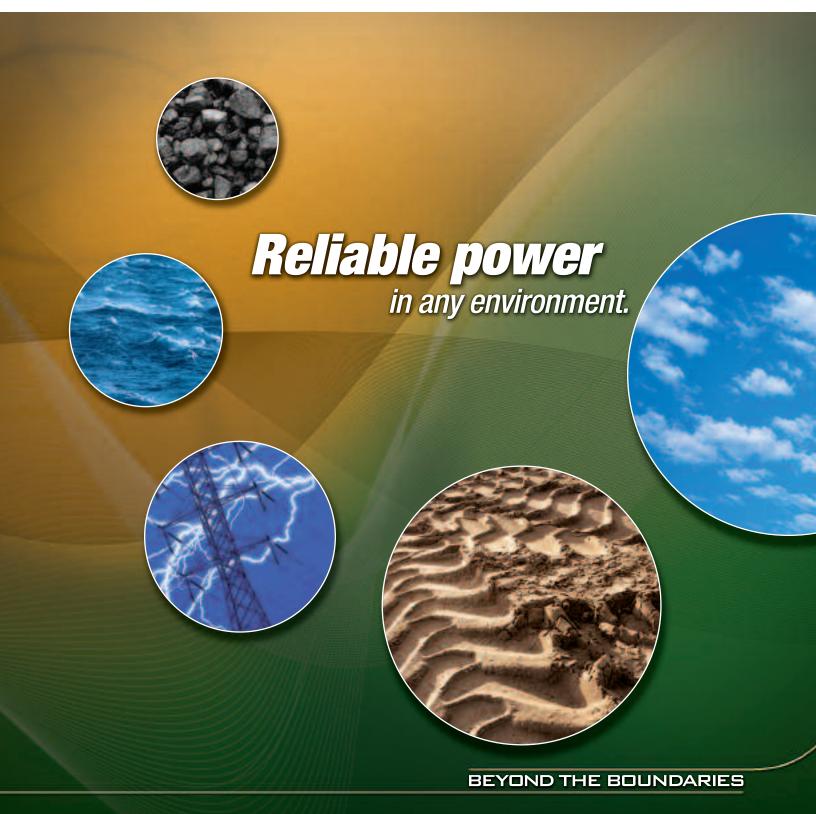


John Deere Power Systems

Diesel Engines and Drivetrain Components





Continuous innovation

Off-highway heritage

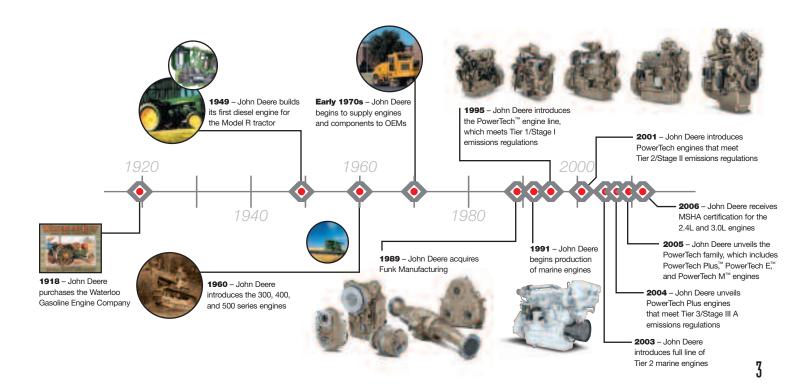
At John Deere, we have extensive off-highway engine and drivetrain component experience. Since 1949, we have designed and manufactured nearly 6 million off-highway diesel engines.

It all began in 1918 when John Deere purchased the Waterloo Gasoline Engine Company. We built our first diesel engine in 1949 for our Model R tractor. By the 1960s, John Deere had developed a full line of four- and six-cylinder diesel engines for the agricultural and construction equipment industries.

Our reputation for reliable power continued to grow, and original equipment manufacturers (OEMs) began installing John Deere engines in off-highway equipment during the early 1970s.

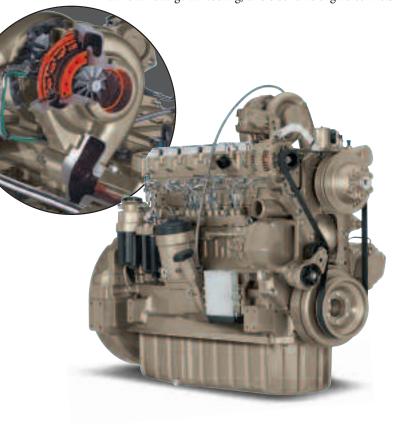
In 1989, we expanded our commitment to drivetrain components by purchasing Funk Manufacturing (now known as John Deere Coffeyville Works) and added to our experience base for integrating complete John Deere drivetrains into off-highway equipment.

Today, John Deere provides diesel engines for agriculture, construction, forestry, mining, generator drive, and marine applications.



John Deere advancements

First off-highway technology application – John Deere developed the first off-highway engines that used turbochargers, air-to-air charge air cooling, and electronic engine controls.



PowerTech™ family of industrial engines 30 – 448 kW (40 – 600 hp)



PowerTech family of mining engines 37 - 62 kW (49 - 83 hp)

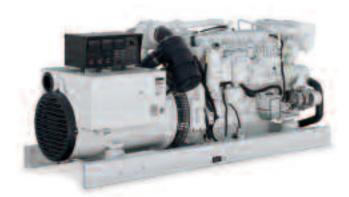


Modular drivetrain components – John Deere hydraulic pump drives were the first to be built with a modular design that allows pump drives to be configured to customers' exact specifications. This modular approach also extends to other drivetrain components. Our axles are highly configurable, and our electronically controlled transmissions can be customized with specific shift patterns and characteristics.



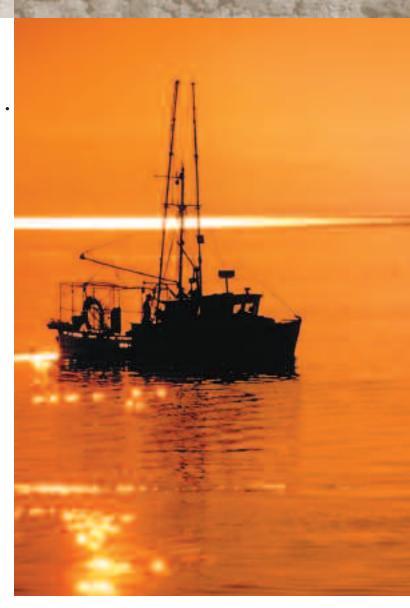
HMD transmissions, powershift transmissions, planetary gear drives, axles, and pump drives

Maximum power in minimum space – Engine technologies such as four-valve cylinder heads help us achieve maximum power density for standby and prime power generation.

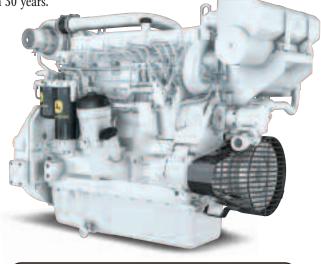


PowerTech family of generator drive engines 50 Hz: 21 – 456 kW (28 – 612 hp) 60 Hz: 35 – 460 kW (47 – 617 hp)





More power in the water – Commercial and recreational boat owners have been relying on John Deere engines for more than 30 years.

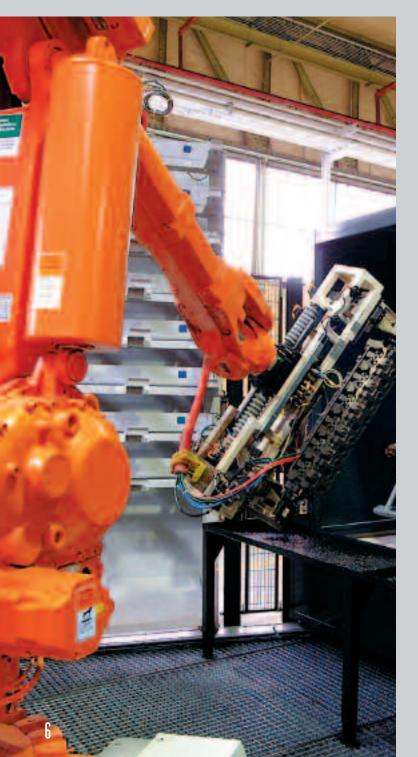


PowerTech marine engines
56 – 455 kW (75 – 610 hp) propulsion engines
40 – 300 kW (54 – 402 hp) generator drive engines

Precision manufacturing

Global production

We've built nearly 6 million diesel engines in the United States, France, Mexico, India, and Argentina. Thousands of drivetrain component configurations are built in the United States and Mexico. A rigorous quality management process is followed at each factory to ensure consistent product quality.



Personalized options

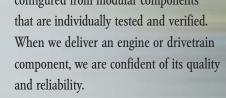
Every engine is built to your specifications from a wide selection of engine options — everything from engine power, flywheels, and fan drives to engine paint color. By working with our drivetrain application engineers, you are able to select from a wide array of options to best meet your requirements.

Precision processes

Every component is fine-tuned before it leaves the factory. For example, fuel injection nozzles are individually bar-coded so they can be calibrated to a specific cylinder. Our Smart Tool system applies the proper torque to individual components based on the engine model being built. We even grind unique profiles on gear

teeth to ensure quiet, efficient operation and a long life.
No detail is too small at John Deere.

Reliability tests Every engine that comes off the assembly line is tested for torque rise, rated power, emissions performance, and electronics verification. Our pump drives are configured from modular components





Real-world performance

Thousands of applications

John Deere is a leader in developing world-class diesel engines and drivetrain components, integrating them into tough applications, and distributing them to our customers worldwide for use in off-highway agricultural, construction, forestry, and mining applications. John Deere engines also

> power generator sets, compressors, and marine applications (propulsion and auxiliary).

Off-highway integration

Our engineers and distributors work closely with customers to help select and integrate the right engine into each application. We also bring a wealth of off-highway experience in drivetrain components and engine electronics systems. Being able to integrate engines, drivetrain components, and electronic controls is even more important today with increasingly demanding emissions regulations.





Global support

Service when you need it

John Deere dealers and distributors are your best source for expert service, knowledge, and accessories for engines and

drivetrain components. With more than 4,000 John Deere service locations throughout the world, you're never far from support.



Parts delivered fast

You can count on genuine John Deere parts. We have centralized warehouses in the United States and Europe, plus numerous worldwide depots — so you'll never have to wait long for

replacement parts or remanufactured components. Overnight delivery is available in most areas.





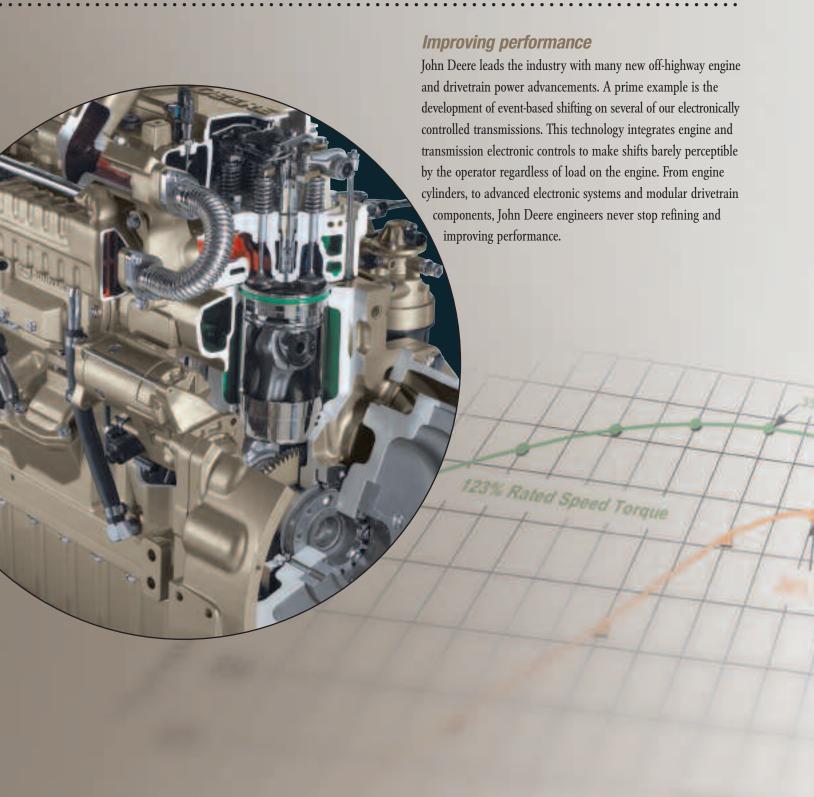
John Deere service personnel are highly trained technicians who stay on top of changing technologies and service methods through factory schools and hands-on training.

A warranty you can count on

John Deere engines and drivetrain components come with competitive warranties and are available with extended warranties. We take a customer-friendly approach to warranty work for our customers.



Balance of power

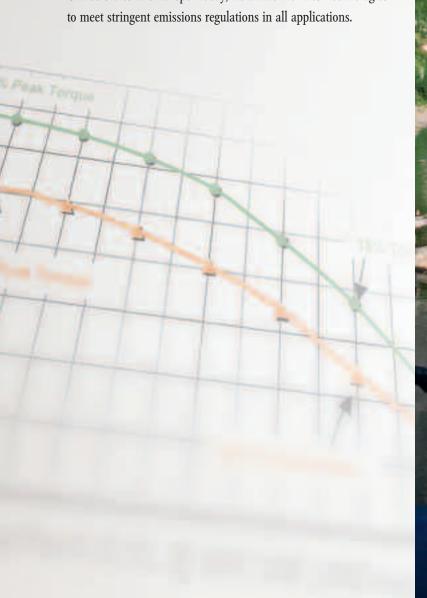


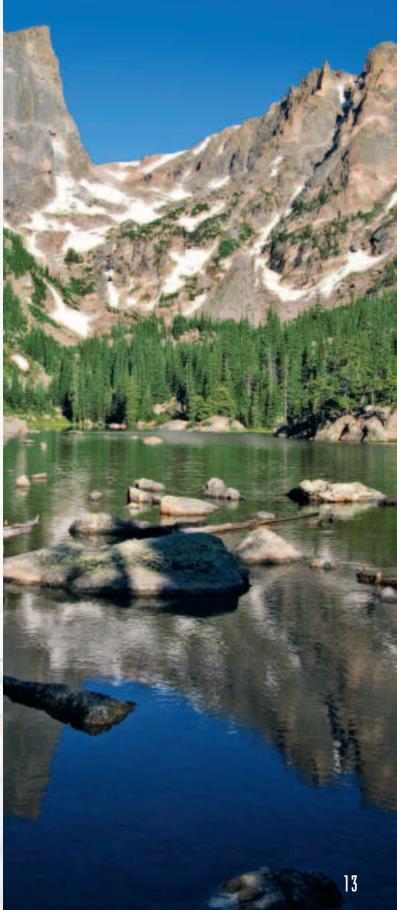
Saving fuel

Because fuel is one of the largest operating expenses for equipment owners, fuel economy will continue to be an important part of the power equation. That's why we work hard to squeeze every drop of fuel efficiency from our engines. No matter how you measure it, at full load or partial load, third-party tests prove that John Deere PowerTech Plus engines deliver best-in-class fuel economy.

Protecting the environment

John Deere takes its responsibility to the environment very seriously. We have been working on lowering engine emissions since 1967, when John Deere first installed emissions testing equipment — years before government standards were set in the United States and Europe. Today, we utilize the latest technologies to meet stringent emissions regulations in all applications.





Bringing it all together

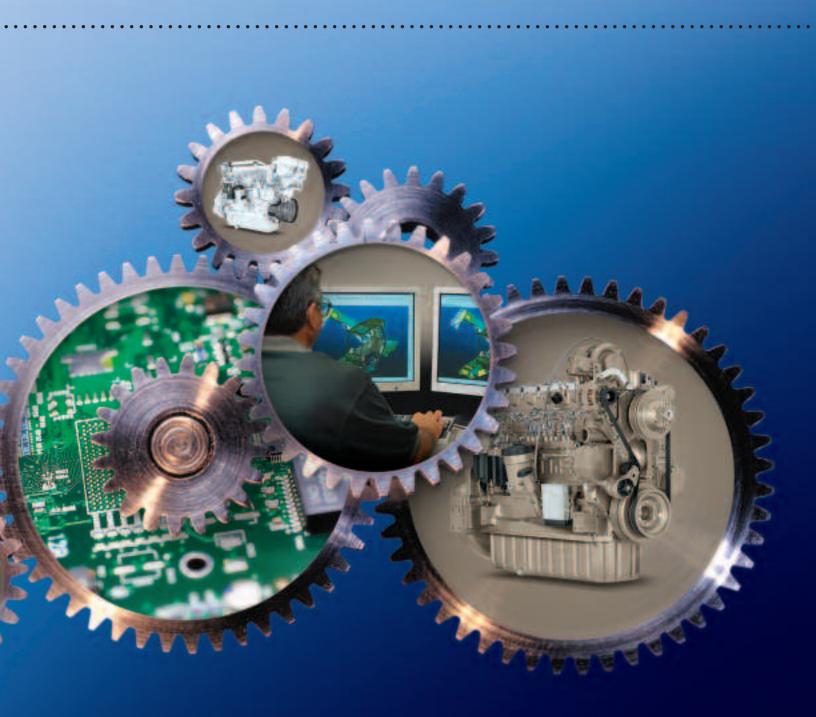


System integration

Getting the most out of your equipment relies on successful integration of all components. John Deere can help integrate your entire powertrain system from the engine and electronics to the drivetrain components. Because these parts are built to work together, John Deere is able to deliver maximum performance and fuel economy while meeting emissions regulations.

No matter what the future holds, John Deere Power Systems has the experience and resources to lead the way — providing innovation, precision, performance, and support.





When you're going beyond the boundaries, go with someone who knows the territory.

Worldwide locations

North America

John Deere Power Systems 3801 West Ridgeway Avenue P.O. Box 5100 Waterloo, IA 50704-5100 Phone: +1 800 533 6446 (U.S.) Phone: +1 319 292 6060 (Canada) Fax: +1 319 292 5075 E-mail: jdpower@JohnDeere.com

Industrias John Deere S.A. de C.V. Boulevard Diaz Ordaz No. 500 Garza Garcia, Nuevo Leon 66210 Mexico Phone: +52 81 8288 1212 Fax: +52 81 8288 8456 E-mail: jdpower@JohnDeere.com

Central America, South America, and Caribbean

John Deere Power Systems 3801 West Ridgeway Avenue P.O. Box 5100 Waterloo, IA 50704-5100 Phone: +1 800 533 6446 (U.S.) Phone: +1 319 292 6060 (Outside U.S.) Fax: +1 319 292 5075 E-mail: jdpower@JohnDeere.com

Argentina

Industrias John Deere Argentina, S.A. Juan Orsetti 481 2152 Grandero Baigorria Sante Fe, Argentina Phone: +54 341 471 8000 Fax: +54 341 471 8001

Europe, Africa, and Middle East

John Deere Power Systems Usine de Saran La Foulonnerie - B.P. 11013 45401 Fleury-les-Aubrais Cedex - France Phone: +33 2 38 82 61 19 Fax: +33 2 38 82 64 62 E-mail: jdengine@JohnDeere.com

Australia and New Zealand

John Deere Limited, **Power Systems Division** P.O. Box 1126 Camden NSW 2570 Australia Phone: +61 2 46474857 Fax: +61 2 46461236

John Deere Asia (Singapore) Pte Ltd #06-02/03 Alexandra Point 438 Alexandra Road Singapore 119958 Phone: +65 6879 8800 Fax: +65 6278 0363

More than 170 years ago, John Deere said,

"I will never put my name on a product that does not have in it the best that is in me."

When people still believe in your vision after 170 years, that's a legacy, that's John Deere.

