8R/8RT Series

225- to 345-Horsepower Tractors

JOHN DEERE



You've Arrived

Numbers. They mean a lot to you. You know the number of acres you farm. The number of seeds you plant. The date you started planting and the date you finished harvesting. Your average yield. Highest price per bushel. And of course, the day you bought your first John Deere tractor. You know its model number. You know the hours you put on it. And chances are, you still have it. After all, your first John Deere holds a special place in your memory. It was the tractor that gave you more opportunity. And with that opportunity you got more done. Made more money. Bought more acres. And grew your family farm into a family business. For when you bought your first John Deere tractor, you arrived.

And so for you, and for all who aspire to own a John Deere, we proudly present the new 8R and 8RT Series Tractors, offering improvements never before seen on a tractor ... with numbers that'll excite you. Numbers that'll give you peace of mind. And numbers that'll give you even more opportunity to expand your business. So turn the page and step inside. You've arrived.



THE NEW 8R/8RT SERIES

Model number	*Engine hp**	*PTO hp*
8225R	225	181
8245R	245	198
8270R	270	220
8295R	295	242
8320R	320	263
8345R	345	284
8295RT	295	235
8320RT	320	255
8345RT	345	275

**Rated engine hp (ISO) per 97/68/EC.*

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The New CommandView II Cab Makes Every Day More Rewarding

The sleek, streamlined design of the new CommandView II Cab pulls you forward and invites you in. And once inside, you'll find a space that is both exciting and relaxing. Its new interior color is calming. Its bigger size gives you more space. Its improved airflow is energizing. And its advanced controls and clear displays make operating your tractor liberating. That's something you don't expect from a tractor, unless it's a John Deere.

For a virtual tour of the new CommandView II Cab, visit www.JohnDeere.com/8R



The subtle curvature of the new CommandView II Cab allows for more glass surface area, and with the removal of the 8030's right-hand console there's a noticeable improvement in visibility — visibility you'll come to appreciate.



You drive more than a tractor. You drive a business. And the business of farming is more stressful than ever. So reward yourself with the luxury of the finest cab in the industry. Available options include a heated, leather operator's seat, leather-wrapped steering wheel, and a premium radio package with a superb sound system.

Simple Yet Advanced Controls Make Your Day Less Challenging

Creating the most comfortable, well-designed, and useful cab of any tractor meant creating controls that empower you, not overwhelm you.

The new CommandARM features a simple set of soft-keys arranged with the most frequently used keys up front, while cab-environment controls are at the back. The console contains gear and throttle levers; controls for the rear hitch, PTO, and SCVs; and switches to active iTEC™ sequences and to resume AutoTrac™ hands-free steering.

The new, seven-inch (17.8 cm) CommandCenter Display lets you easily program and monitor almost every tractor function – even in multiple languages. You also can run software applications on the display, such as SeedStar™ 2, SpreadStar,™ and AccuDepth,™ or use it as an ISO Implement Virtual Terminal for compatible tools. That's empowerment made simple — and not a challenge.

Learn how easy it is to use the new CommandCenter at www.JohnDeere.com/8R or see your John Deere dealer.



The ergonomic design of the new CommandARM puts virtually all tractor controls right at your fingertips. The entire CommandARM moves with your seat, which now features a 25-percent increase in swivel to the right when compared to the 8030 Series for a more comfortable view out the back window. In addition, the entire CommandARM can be raised, lowered, and moved forward and back so you can comfortably rest your arm on it.



The redesigned cornerpost display is larger and brighter, making it easier to read fuel, temperature and oil-pressure gauges, engine speed, gear selection, ground speed, plus stop-engine and warning alerts.



iTEC (intelligent Total Equipment Control) is a major advancement of the popular Implement Management System (IMS) found on the 8030 Series. Now with iTEC, you can program, save, edit, and rename two headland sequences for up to five implements. Each sequence can learn up to 20 tractor functions, so you can effortlessly conduct multiple tractor functions all at once.

Advanced Comfort Makes Your Day Go Faster

Our new, advanced heating and air conditioning system provides enhanced air quality by pressurizing the air inside the cab to keep dust out, while 10 vents efficiently and uniformly distribute air throughout the cab for all-over comfort. Its unique design within the cab roof allows for 30 percent more airflow when compared to the 8030 Series. There also is a surprising array of new features throughout the cab that make it easy for you to sit back, relax, and make yourself at home.



Spending long days in the field requires packing plenty of provisions. There's ample storage space in the new cargo area behind your seat, plus more compartments throughout the cab.



The Deluxe Radio Package offers an auxiliary jack and USB port on the front of the radio to connect a compatible iPOD® or other MP3 player. Go with the Premium Entertainment Package and enjoy an extraordinary listening experience thanks to a subwoofer behind the operator's seat and XM Satellite Radio® compatibility. You also can take advantage of integrated Bluetooth® technology for hands-free phone calls, and an additional auxiliary jack in the right-hand console.



The instructional seat folds down and doubles as a work station so you can take care of important decisions during meal breaks and planter refills.

Opportunities Await

We build the world's best tractors for a reason. Our parents drive them. For many of us at John Deere were born on the farm. Raised on a tractor. And got out of school a couple of weeks in the fall to help with harvest. We still help, except now we take vacation time. We love tractors and iron and green paint just as much as you. We love the smell of planted dirt in the spring. Fresh-cut hay in the summer. And grain spilling into a cart in the fall. We value hard work and opportunity, which is why we took the opportunity to ask farmers like you around the country what you want in a new track tractor. And then we asked our parents.

The astonishing result is here before your eyes. The all-new John Deere 8RT Series Track Tractors. Built out of love. Completely new from the ground up. Fully loaded with everything you asked for, and then some. It gives you the opportunity to work faster. Work harder but more comfortably. Use wider implements more efficiently. Cut your costs. And make more money. After all, there are no challenges when you've arrived. Only opportunities.



The 8RT Series Track Tractors offer a number of new features, including:

- The new CommandView™ II Cab
- The revolutionary AirCushion Suspension System, plus a new, massive undercarriage system
- The Infinitely Variable Transmission is standard on the 8345RT and optional on all other models
- Up to 40 additional horsepower
- Increased hitch-lift capacity — up to 19,300 lb. (8754 kg) — a 27-percent improvement over the 8030T Series
- Increased hydraulic capacity — from 44 to 60 GPM (167 to 227 L/min) — a 41-percent improvement over the 8030T Series
- The 200-gallon (758 L) fuel tank is 54 percent larger than the 8030T Series
- Improved transport speeds — up to 24.5 mph (40 km/h) — that's 24-percent faster than the 8030T Series
- One frame configuration allows track-tread spacing from 72 to 120 inches (1.8 to 3 m) — without detensioning tracks, plus an optional track extension kit to accommodate 160-inch (4 m) spacing

AirCushion™ Suspension System

The revolutionary AirCushion Suspension System is the ultimate in track-tractor suspension technology. You'll appreciate the enhanced comfort when working rough ground, plus you'll like the faster field and transport speeds.

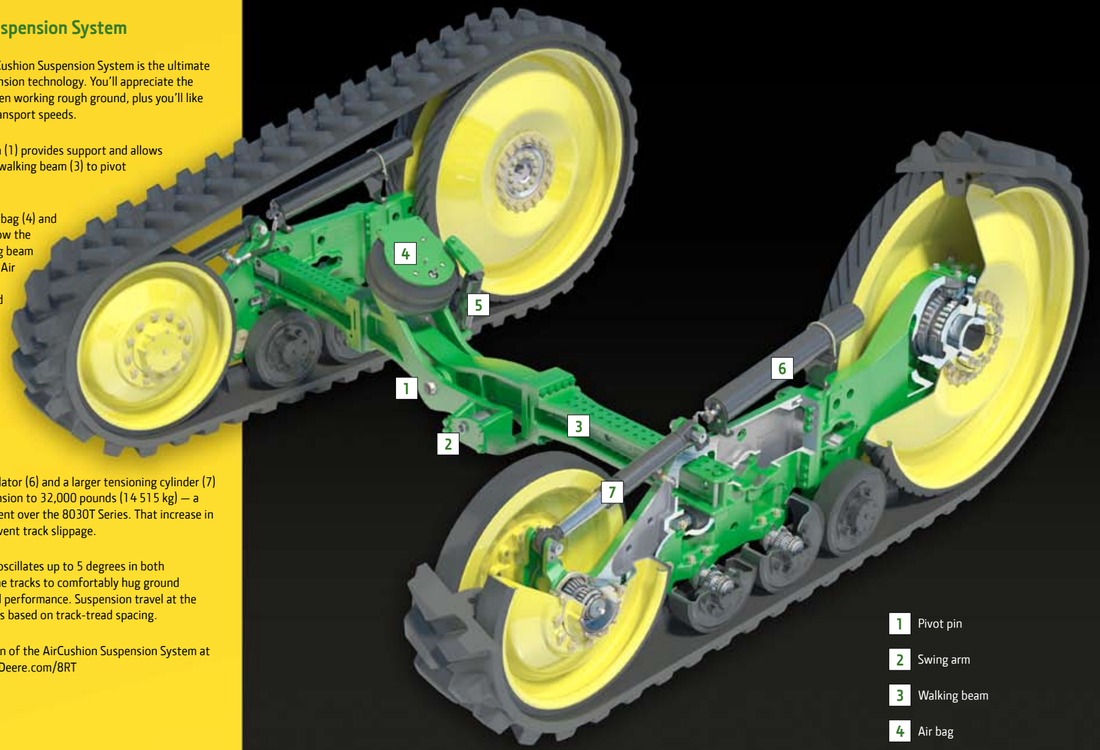
- A massive pivot pin (1) provides support and allows the swingarm (2) and walking beam (3) to pivot individually.

- The heavy-duty air bag (4) and shock absorber (5) allow the swing arm and walking beam to float up and down. Air bag pressure is automatically adjusted to keep the swing arm centered for maximum suspension travel. This helps ensure there's plenty of suspension travel for a smoother ride over any terrain.

- A nitrogen accumulator (6) and a larger tensioning cylinder (7) increase track-belt tension to 32,000 pounds (14 515 kg) — a 45-percent improvement over the 8030T Series. That increase in belt tension helps prevent track slippage.

- The walking beam oscillates up to 5 degrees in both directions, allowing the tracks to comfortably hug ground contours for improved performance. Suspension travel at the front idler wheel varies based on track-tread spacing.

To see a demonstration of the AirCushion Suspension System at work, visit www.JohnDeere.com/8RT



1. Pivot pin
2. Swing arm
3. Walking beam
4. Air bag
5. Shock absorber
6. Nitrogen accumulator
7. Tensioning cylinder



The new, massive undercarriage features the longest wheelbase of any row-crop track tractor for more power to the ground. In fact, it's 10 inches (25.4 cm) longer than the 8030T Series. This larger footprint also helps distribute loads evenly and reduces compaction. Front idler wheels are nearly 10 inches taller and are big enough to hang wheel weights on both the inner and outer sides of the idler for improved ballasting. Midrollers are more than 2 inches (5.1 cm) taller and provide improved durability. The rear differential also is new, with inboard planetary drives and a bar axle to evenly distribute loads and reduce stress on individual gears and shafts.

A



B



C



Spacing points are positioned in 4-inch (10.2 cm) increments across the walking beam so you can space your track treads anywhere you like, from (A) 72 to (B) 120 inches (1.8 to 3 m). And if 120 inches isn't wide enough, go with (C) the optional 112 to 160-inch (4 m) field-installed kit. This design eliminates the need for separate tractor frames to accommodate narrow or wide settings.



The PowerTech Plus Engine delivers a PTO torque rise of 44 percent and a PTO power bulge of 12 percent for tremendous lugging power. And when full-rated power isn't quite enough, the Intelligent Power Management option gives you an extra 35 engine hp during mobile rear PTO applications and transport speeds.

Proven Power Makes Every Day More Efficient

The John Deere PowerTech™ Plus 9.0 L Engine runs strong, day after day, season after season. A four-valve overhead cam design allows for superb low-speed torque and throttle response, plus tremendous lugging power to pull you up, over, and through tough conditions. And it helps keep your operating costs down, too. In fact, the 9.0 L engine helped the John Deere 8430 set the fuel-efficiency record at the Nebraska Tractor Test Lab.* So it's sure to provide outstanding fuel efficiency on the 8430's replacement — the new 8320R — plus the entire 8R/8RT Series.

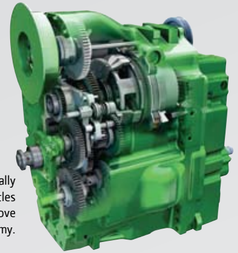
Transmission Choices for Powerful Versatility

Choose between two field-proven transmissions: the 16-speed automatic PowerShift or the revolutionary John Deere Infinitely Variable Transmission (IVT™). PowerShift delivers the strength to handle sudden, high-torque loads while maintaining responsive, application-based shifts. For the ultimate in convenience and productivity, both in the field and in transport, opt up to the IVT. Simply select the preferred operating speed, choose from one of three operating modes, and the IVT automatically maintains the ideal engine speed – even under changing load conditions.

(*Nebraska Tractor Test Lab, report 1873 Summary 527.)



The legendary John Deere PowerTech Plus 9.0 L Engine.



The IVT automatically shifts up and throttles back to help improve fuel economy.





The high-capacity Vari-Cool™ System with variable-speed fan drive automatically adjusts its speed to keep engine and hydraulic systems cool. It also helps improve fuel economy and bosts pulling power.

Capacity and Control. The heavy-duty hydraulic system boasts plenty of reserve hydraulic capacity to operate large hydraulic motors, even at reduced engine speeds. Closed-center pressure and flow-compensated hydraulics are standard equipment and are used for all steering, brrake, hitch, and SCV functions. And speaking of SCVs, you can choose three to five SCVs at the rear of the tractor to meet your specific needs. Simple hydraulic control lets you easily adjust hydraulic flow and time detents for each individual hydraulic coupler — right from the CommandARM™ Console.



Power and Versatility. Use the PTO to power everything from your potato diggers, beet or forage harvesters, large grain carts, rotary cutters, baler, and more. A fully independent 1 3/4-inch (4.4 cm) 1,000-rpm PTO is standard equipment. The 20-spline shaft is built to handle high-power, heavy PTO loads that require full horsepower requirements. PTO engagements are automatically modulated for smooth starts and to help protect your implement from high-torque overloads.



Loaded with Strength. The 8R/8RT Series offer a wide range of drawbar and hitch options to meet your needs, plus they're compatible with scraper drawbar attachments. An available Category 4 drawbar and 2-inch (50.8 mm) hitch pin with heavy-duty drawbar support and 11,000-lb. (4990 kg) tongue-weight capacity provides added load-bearing strength to handle large-capacity grain carts, drawn tillage tools, and wide planters.

Loaded with Capacity. A Category 4N/3 rear hitch on wheel models provides up to 18,300 lb. (8301 kg) hitch-lift capacity that lets you take full advantage of the increased horsepower levels of the 8R Series. Track models feature an impressive 19,300 lb. (8754 kg) hitch-lift capacity — a 27 percent improvement over the 8030T Series.



Suspensions Systems Make Your Day More Smoother

8R Series Tractors can be equipped with front Independent Link Suspension (ILS™) while the 8RT Series features the revolutionary AirCushion™ Suspension System. Both suspension systems provide a super-smooth ride and maintain faster field and transport speeds. Their unsurpassed traction and flotation help put more power to the ground, plus more comfort in the cab.

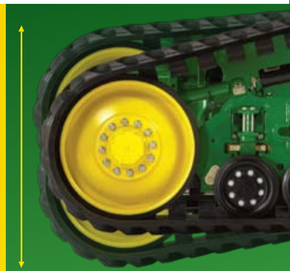
AXLE CHOICES

8R Series Tractors come with your choice of a mechanical front-wheel-drive (MFWD) axle or ILS. Go with the MFWD option and choose between the 1300 and 1500 Series Axles. Both have electro-hydraulic automatic engagement and give you the drawbar pulling power you need in all operating conditions. The 1500 Series MFWD option lets you add duals to your front axle for added load-carrying capacity, traction, and flotation. There's also a 2-Wheel-Drive version of the 8225R ideal for applications that do not require a powered front axle.

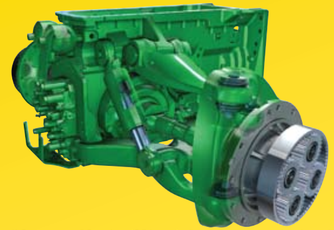


8R Series Tractors can be equipped with the exclusive John Deere ActiveSeat.™ It isolates you from up to 90 percent of vertical movements for an even smoother ride. (ActiveSeat not available on track models.)

The AirCushion Suspension System on track tractors allows 9.6 inches (24.4 cm) of vertical suspension travel at the front idlers when tracks are set at a 72-inch (1.8 m) tread spacing, and up to 15.3 inches (38.9 cm) when set at the 120-inch (3 m) tread spacing. Add the optional extension kit, space the tracks out to 160 inches (4 m), and the suspension travel increases to 20.4 inches (51.8 cm).



15.3 inches of total suspension travel when tracks are set at 120 inches.

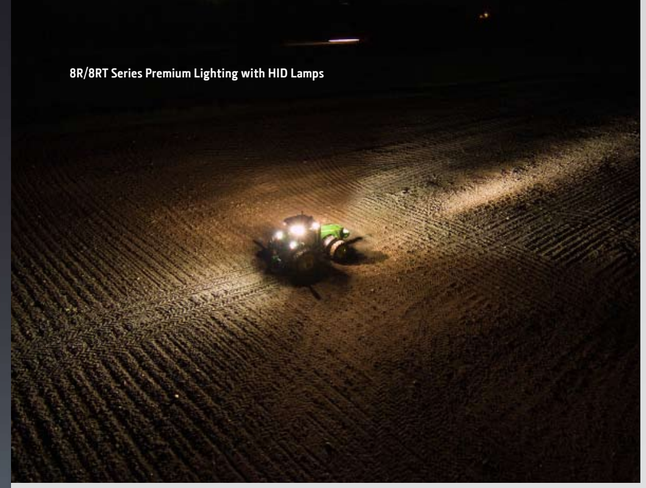


ILS gives you 10 inches (254 mm) of suspension travel to keep front duals in contact with the ground, which means you can work at faster speeds for improved productivity.

Lighting for When Your Day Turns into Night

You put in more than just long days. You put in long nights. So equip your 8R/8RT Series Tractor with one of three lighting packages. Standard Lighting offers 12 halogen lamps, while the Deluxe Lighting Package adds adjustable front-roof halogen floodlights and beltline work lights for a noticeable improvement over the 8030 Series lights. Opt up to the Premium Lighting Package and enjoy an extraordinary 360-degree illumination of your field thanks to high-intensity discharge (HID) lamps. Program the lights using the CommandARM™ Console to illuminate specific areas of the field or to prevent blinding your combine operator. And you can program the lights to remain on for an extended period of time as you lock up at the end of a long night.





8R/8RT Series Premium Lighting with HID Lamps



8R/8RT Series Standard Lighting



8R/8RT Series Deluxe Lighting



8030 Series Lighting with HID Lamps

Let Go and Gain Control

Make every pass more productive with integrated GreenStar guidance. Whether you choose to be hands-on with Parallel Tracking™ or hands-free with AutoTrac™ and RTK accuracy, one thing is certain — GreenStar precision improves your productivity and profitability. And best of all, your 8R and 8RT Tractors are completely integrated with GreenStar technology. In fact, all models with MFWD, ILS, or tracks are AutoTrac-ready. Simply plug in your GreenStar display and StarFire™ receiver and you're set to go. (GreenStar Displays, StarFire Receivers and shrouds sold separately.)







1 Install your StarFire™ iTC Receiver into the new deluxe shroud and slide the shroud into place on top of the CommandView II Cab. This robust attachment point provides more stability for the receiver.

2 The original shroud can be used on the front of the cab with the conversion bracket.

iTEC™ Pro takes hands-free beyond points A and B. As you approach your headland, iTEC Pro works with AutoTrac guidance through your GreenStar 2 2600 Display to automatically slow the tractor speed, raise the implement, turn the tractor, and re-engage the implement … all hands-free. (iTEC Pro module sold separately.)

The GreenStar 2 2600 Display is built to handle all your applications and equipment control functions, from hands-free guidance to real-time documentation, and much more.

Loaded Versatility. The John Deere 843 Loader turns your tractor into the ultimate versatility machine. Spread gravel. Load silage. Move round bales. Clean your feedlots. And more. The loader is engineered with the tractor to add extra durability, strength, and hydraulic compatibility. Loader controls are easy to learn, visibility from the cab is uncompromised, and your John Deere dealer has plenty of Frontier attachments — from buckets to pallet forks and practically everything in between.

Fast and Smooth. Whether you're moving implements from one field to the next, or hauling heavy material, the 8R/8RT Series make road transport chores fast and efficient. Plus, the AirCushion™ Suspension System on track tractors give you a smoother ride.

Service Made Simple

Routine maintenance is a part of owning any tractor, and John Deere makes it a quick and easy task.

All daily check points are right at ground level, so you don't need to lift the hood. When you need to inspect and clean the radiator, the hood easily lifts up and out of way. Transparent fluid reservoirs let you quickly check coolant and hydraulic fluid levels. And the self-priming fuel system eliminates messy hand priming and filter pre-filling.

The 8R/8RT Series use SmartCircuit CAN bus technology with fewer fuses, relays, and wiring connections for better reliability. Fuses are located just behind the tractor seat for quick, easy access.

What's more, the integrated ServiceADVISOR™ system helps John Deere technicians diagnose and evaluate your tractor's systems more quickly to help you maximize equipment uptime and reduce operating costs.





The single-piece tilt hood gives you unobstructed access for easy service.



Fuel fills are easy. Tank capacity on wheel models is 180 gallons (681 L). Track models feature a larger 200-gallon (758 L) tank, which is 54-percent larger than the 8030T Series.



A top-load oil filter makes changes clean, quick, and easy.



No need for a ladder to reach the air filter — it's right within reach.

The most responsive dealer network in the business.

Nobody cares more about keeping your equipment in solid working order than your John Deere dealer. With a complete inventory of genuine John Deere parts, highly trained service technicians, and a thorough understanding of your business, your John Deere dealer knows how to keep you and your equipment up and running.

The strongest name in equipment, and the strongest dealership network in the business: get it all with John Deere.



Protect your Investment with a PowerGard™ Plan

The John Deere PowerGard Maintenance Plan allows you to purchase scheduled maintenance when you purchase your tractor ... you pick the program that's right for your usage (high-hour commercial applications or lower-hour specialty use, for example), and your equipment will get routine inspection and service by your John Deere dealer.

The PowerGard Protection Plan allows you to purchase extended engine and powertrain warranty coverage for up to an additional three years or 3,000 hours over the normal warranty period. You get flexible coverage, low deductibles, and high peace of mind. Ask your dealer for details, or go to www.powergard.com.



Attachments and Accessories

Your John Deere dealer has a wide array of quality attachments and accessories to fit your 8R/8RT Series Tractor, from controlled-traffic wheel spacers, high-intensity-discharge lights, and even insulated coolers. All are precision matched for uniform fit, finish and color consistency.



Battery Disconnect Switch. Makes it easy to disconnect your battery when you put your tractor in storage.



Transmission Back-Up Alarm. Sounds a loud warning to those people around you when you put the transmission in reverse.





Wide-Track Conversion Kit. Extends the walking beam and rear axle so you can space your track treads out to 160 inches.



Accessory Mounting Bracket. Makes it convenient to hang your implement monitors and other accessories in one easy-to-reach location.



Custom-Key Door Lock. Allows the door key to be different from the ignition key to help prevent theft.



Right-Hand Step Kit. Makes cleaning the right-side of the tractor easier. This easy-to-install kit includes steps, handrail, and all hardware.



Tire-Pressure Monitoring Kit. Alerts you when a tire begins to lose pressure and helps to prevent tire damage. Wireless sensors screw onto the valve stems. The monitor plugs into a 12-volt power socket or can be direct wired.



Speed-Control Foot Pedal. Gives you better control of engine speed for loader work, maneuvering in tight spaces, and during transport.



8R SERIES, COMMON SPECIFICATIONS	
ENGINE	
Description	John Deere PowerTech™ Plus 9.0 L Engine: diesel, in-line, 6-cylinder, wet-sleeve with 4 valve-in-head
Rated speed	2,100 rpm
Aspiration	Variable geometry turbocharger with air-to-air aftercooling and cooled exhaust gas recirculation
Filter, engine air	Dual-stage with engine cooling fan aspiration
Displacement	549 cu. in. (9.0 L)
Bore and stroke	4.66 in. (118 mm) x 5.35 in. (136 mm)
Compression ratio	16:1
Lubrication	Full-pressure, full-flow filtration with bypass
Filter, oil	Replaceable cartridge-style oil filter
FUEL SYSTEM	
Description	Electronically controlled, high-pressure common-rail with electric fuel transfer pump (self priming)
Filter system	Two-stage with water separator and service-indicator light
Filter, primary	10 micron replaceable cartridge
Filter, secondary	2 micron spin-on element
Fuel-tank capacity	180 U.S. gal. (681 L)
ELECTRICAL SYSTEM	
Description	Two batteries in parallel
Alternator/battery	200 amps/12 Volt
Total cold-cranking amps	1850

	8225R	8245R	8270R	8295R	8320R	8345R
POWER						
Rated PTO hp at 2,100 engine rpm	181 hp (135 kW)	198 hp (148 kW)	220 hp (164 kW)	242 hp (180 kW)	263 hp (196 kW)	284 hp (212 kW)
Rated engine hp (ISO) per 97/68/EC at 2,100 engine rpm	225 hp (166 kW)	245 hp (180 kW)	270 hp (199 kW)	295 hp (217 kW)	320 hp (235 kW)	345 hp (254 kW)
Maximum engine hp (ISO) per 97/68/EC at 1,900 engine rpm	248 hp (182 kW)	268 hp (197 kW)	291 hp (214 kW)	322 hp (237 kW)	347 hp (256 kW)	378 hp (278 kW)
Intelligent Power Management* (optional)	35 additional engine horsepower at 2,100 rpm (rated speed)					
PTO torque rise	44%					
PTO power bulge	12%					
TRANSMISSIONS						
16-speed PowerShift; 16F, 4R with APS (Auto Power Shift)	Standard	Standard	Standard	Standard	Standard	–
John Deere Infinitely Variable Transmission, 26 mph (42 km/h)	Optional	Optional	Optional	Optional	Optional	Standard
John Deere Infinitely Variable Transmission, 31 mph (50 km/h)	Optional	Optional	Optional	Optional	Optional	Optional
FINAL DRIVES						
Description	Inboard planetary					
REAR AXLE						
Description	Rack and pinion					
4.33 x 118.5 in. (110 x 3010 mm) diameter long, single-taper hub	Standard	Standard	Standard	Optional	–	–
4.33 x 118.5 in. (110 x 3010 mm) diameter long, dual-taper hub	Optional	Optional	Optional	Optional	–	–
4.72 x 118.5 in. (120 x 3010 mm) diameter long, dual-taper hub	Optional	Optional	Optional	Standard	Standard	Standard
4.72 x 96 in. (120 x 2438 mm) diameter long, dual-taper hub	Optional	Optional	Optional	Optional	Optional	Optional
FRONT AXLE						
2WD, tread range 60 to 88 in. (1524 to 2235 mm)	Optional	–	–	–	–	–
1300 Series MFWD, tread range 60 to 88 in. (1524 to 2235 mm)	Standard	Standard	Standard	Optional	–	–
1500 Series MFWD, tread range 60 to 144 in. (1524 to 3657 mm) with or without duals	Optional	Optional	Optional	Standard	Optional	Optional
Independent Link Suspension (ILS), tread range 60 to 132 in. (1524 to 3352 mm), with or without duals	Optional	Optional	Optional	Optional	Standard, duals optional	Standard, duals optional
DIFFERENTIAL LOCK						
Front axle, 1300 Series MFWD	Limited slip					
Front axle, 1500 Series MFWD	Full-locking electrohydraulic					
Front axle, ILS	Full-locking electrohydraulic					
Rear axle	Full-locking electrohydraulic					
HYDRAULIC SYSTEM						
Description	Closed-center, pressure and flow compensated					
Selective control valves (SCVs)	4 standard, 3 and 5 optional					
Main pump, axial piston (displacement)	63 cc standard 85 cc optional	63 cc standard 85 cc optional	63 cc standard 85 cc optional	85 cc standard 63 cc optional	85 cc standard	85 cc standard
Clean-oil reservoir charge pump	Gear-driven, integrated					
Maximum pressure	2,900 psi (20,000 kPa)					
Rated flow, 63 cc pump	44 U.S. gpm (166.6 L/min)	44 U.S. gpm (166.6 L/min)	44 U.S. gpm (166.6 L/min)	44 U.S. gpm (166.6 L/min)	–	–
Rated flow, 85 cc pump	60 U.S. gpm (227.1 L/min)					
Available flow at a single SCV	35 U.S. gpm (132 L/min)					
3-POINT HITCH, REAR						
Description	Electrohydraulic sensing					
Category 3/3N with Quik-Coupler	12,400 lb. (5625 kg) standard 15,200 lb. (6895 kg) optional	12,400 lb. (5625 kg) standard 15,200 lb. (6895 kg) optional	13,800 lb. (6260 kg) standard 15,200 lb. (6895 kg) optional	15,200 lb. (6895 kg) standard 17,300 lb. (7847 kg) optional	–	–
Category 4N/3 with Quik-Coupler	18,300 lb. (8301 kg) optional	18,300 lb. (8301 kg) optional	18,300 lb. (8301 kg) optional	18,300 lb. (8301 kg) optional	18,300 lb. (8301 kg) standard	18,300 lb. (8301 kg) standard
3-POINT HITCH, FRONT						
Description	Category 3N; requires Independent Link Suspension (ILS)					
Standard lift capacity	11,000 lb. (4989 kg)					
POWER TAKE-OFF (PTO), INDEPENDENT						
1 3/4 in. (44 mm) 20-spline, 1,000 rpm	Standard	Standard	Standard	Standard	Standard	Standard
1 3/4 in. (44 mm) 20-spline, 1,000 rpm; capable of 1 3/8 in. (35 mm) 540/1000 rpm	Optional	Optional	Optional	–	–	–
1 3/4 in. (44 mm) 20-spline, 1,000 rpm with 1 3/8 in. (35 mm) 540/1000 rpm gearcase	Optional	Optional	Optional	Optional	Optional	Optional
PTO speed at engine rpm	1,000 at 2001					
WHEELBASE						
2WD	126.8 in. (3220 mm)	–	–	–	–	–
MFWD/ILS	120.1 in. (3050 mm) / 118.9 in. (3020 mm)					
MFWD/ILS axle clearance	27 in. (685.8 mm) / 23.2 in. (590 mm)					
AVERAGE STANDARD WEIGHT (less front weights)						
2WD	21,774 lb. (9877 kg)	–	–	–	–	–
MFWD	25,868 lb. (11 734 kg)	25,868 lb. (11 734 kg)	25,868 lb. (11 734 kg)	25,868 lb. (11 734 kg)	25,868 lb. (11 734 kg)	25,868 lb. (11 734 kg)
ILS	28,902 lb. (13 110 kg)	28,902 lb. (13 110 kg)	28,902 lb. (13 110 kg)	28,902 lb. (13 110 kg)	28,902 lb. (13 110 kg)	28,902 lb. (13 110 kg)

*Specifications and design subject to change without notice. *Activates during mobile rear PTO applications and transport speeds. †540 rpm selection is not compatible with models equipped with a Category 4 drawbar.*

	8295RT	8320RT	8345RT
POWER			
Rated PTO hp at 2,100 engine rpm	235 hp (175 kW)	255 hp (190 kW)	275 hp (205 kW)
Rated engine hp (ISO) per 97/68/EC at 2,100 engine rpm	295 hp (217 kW)	320 hp (235 kW)	345 hp (254 kW)
Maximum engine hp (ISO) per 97/68/EC at 1,900 engine rpm	322 hp (237 kW)	347 hp (256 kW)	378 hp (278 kW)
Intelligent Power Management* (optional)	35 additional engine horsepower at 2,100 rpm (rated speed)		
PTO torque rise	44%		
PTO power bulge	12%		
TRANSMISSIONS			
16-speed PowerShift; 16F, 4R with APS (Auto Power Shift)	Standard	Standard	–
John Deere Infinitely Variable Transmission, 24.5 mph (40 km/h)	Optional	Optional	Standard
FINAL DRIVES			
Description	Inboard planetary		
REAR AXLE			
Tread spacing	72 to 120 in. (1829 to 3048 mm) standard, 112 to 160 in. (2845 to 4064 mm) optional		
Track type	Camoplast Durabuilt 3500 and 5500 Series Track Belts		
Track width	25 in. (635 mm)		
Optional track widths	16 in. (406 mm), 18 in. (457 mm), 24 in. (610 mm), 30 in. (762 mm)		
Drive wheel total width	15 in. (381 mm) required with 16-, 18-, and 24-in. (406, 457, and 610 mm) tracks; 24 in. (610 mm) optional with 25-, and 30-in. (635, and 762 mm) tracks		
Mid-rollers total width	15 in. (381 mm) required with 16-, 18-, and 24-in. (406, 457, and 610 mm) tracks; 24 in. (610 mm) required with 25-, and 30-in. (635, and 762 mm) tracks		
GROUND CONTACT AREA			
16 in. (406 mm)	3,168 sq. in. (2.04 sq. m)		
18 in. (457 mm)	3,565 sq. in. (2.30 sq. m)		
24 in. (609 mm)	4,753 sq. in. (3.07 sq. m)		
25 in. (635 mm)	4,951 sq. in. (3.19 sq. m)		
30 in. (762 mm)	5,941 sq. in. (3.83 sq. m)		
STATIC GROUND PRESSURE, for 36,000 lb. (16 067 kg) vehicle			
16 in. (406 mm)	11.36 psi (78.59 kPa)		
18 in. (457 mm)	10.1 psi (69.87 kPa)		
24 in. (609 mm)	7.57 psi (52.40 kPa)		
25 in. (635 mm)	7.27 psi (50.30 kPa)		
30 in. (762 mm)	6.06 psi (41.91 kPa)		
HYDRAULIC SYSTEM			
Description	Closed-center, pressure and flow compensated		
Selective control valves (SCVs)	4 standard, 3 and 5 optional		
Main pump, axial piston (displacement)	63 cc standard , 85 cc optional		
Clean-oil reservoir charge pump	Gear driven		
Maximum pressure	2,900 psi (20,000 kPa)		
Rated flow, 63 cc pump	44 U.S. gpm (166.6 L/min)		
Rated flow, 85 cc pump	60 U.S. gpm (227.1 L/min)		
Available flow at a single SCV	35 U.S. gpm (132 L/min)		
3-POINT HITCH, REAR			
Description	Electrohydraulic sensing		
Category 3/3N with Quik-Coupler	16,800 lb. (7620 kg) standard		
Category 4N/3 with Quik-Coupler	19,300 lb. (8754 kg) optional	19,300 lb. (8754 kg) standard	19,300 lb. (8754 kg) standard
POWER TAKE-OFF (PTO), INDEPENDENT			
1 3/4 in. (44 mm) 20-spline, 1,000 rpm	Standard		
PTO speed at engine rpm	1,000 at 2001		
STEERING			
Description	Speed-sensitive, electrohydrostatic, planetary differential		
BRAKES			
Description	Power, hydraulic wet-disk		
WHEELBASE			
Length	99 in. (2515 mm)		
AVERAGE STANDARD WEIGHT			
With IVT, full fuel, 24-in. (0.61 mm) tracks, no weights	34,460 lb. (15 631 kg)		

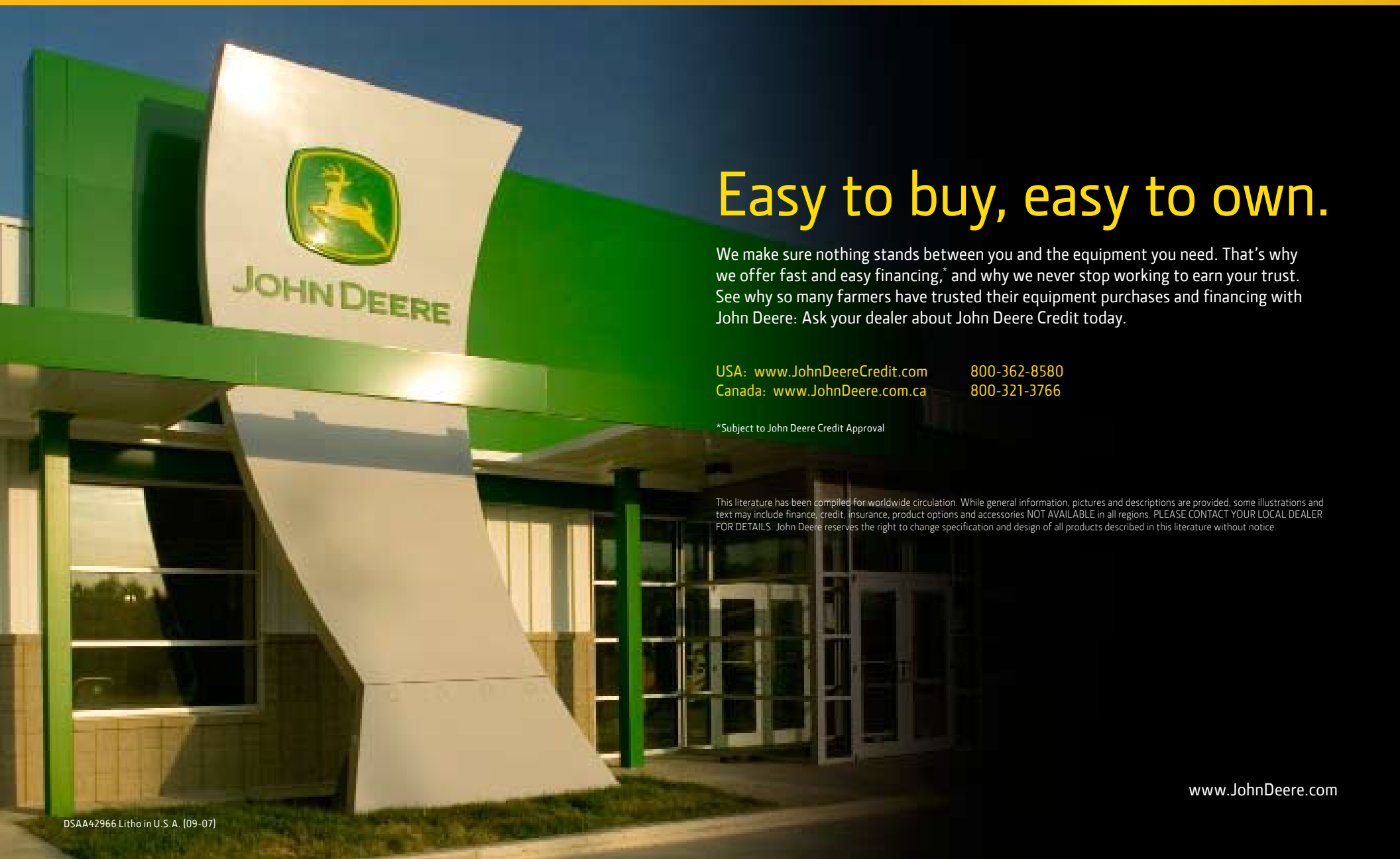
*Specifications and design subject to change without notice. *Activates during mobile rear PTO applications and transport speeds.*



8RT SERIES, COMMON SPECIFICATIONS	
ENGINE	
Description	John Deere PowerTech™ Plus 9.0 L Engine: diesel, in-line, 6-cylinder, wet-sleeve with 4 valve-in-head
Rated speed	2,100 rpm
Aspiration	Variable geometry turbocharger with air-to-air aftercooling and cooled exhaust gas recirculation
Filter, engine air	Dual-stage with engine cooling fan aspiration
Displacement	549 cu. in. (9.0 L)
Bore and stroke	4.66 in. (118 mm) x 5.35 in. (136 mm)
Compression ratio	16:1
Lubrication	Full-pressure, full-flow filtration with bypass
Filter, oil	Replaceable cartridge-style oil filter
FUEL SYSTEM	
Description	Electronically controlled, high-pressure common-rail with electric fuel transfer pump (self priming)
Filter system	Two-stage with water separator and service-indicator light
Filter, primary	10 micron replaceable cartridge
Filter, secondary	2 micron spin-on element
Fuel-tank capacity	200 U.S. gal. (758 L)
ELECTRICAL SYSTEM	
Description	Two batteries in parallel
Alternator/battery	200 amps/12 Volt
Total cold-cranking amps	1850



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