

# 8 SERIES TRACTORS

230-410 Engine Horsepower



JOHN DEERE



# PAVING THE WAY

# FORWARD

At John Deere, we've cultivated more than 100 years of tractor expertise in the pursuit of progress for farmers. Now we're paving the path to the future with the 8 Series Tractors, which take a pivotal step in the direction of autonomy.

The 8 Series Tractors are available in three configurations: 8R wheels, two-track 8RTs, and four-track 8RXs.

Take your 8 Series Tractor's capabilities to new levels with John Deere precision ag technology, such as G5 Advanced and high-speed data flow between machine and implement. Gain productivity with features like AutoTrac™ Turn Automation, which makes consistent turns at the edge of your field. Use AutoPath™ to place your implement, sprayer, and harvester in the exact location for the most efficient path through the field.

Imagine your tractor being able to operate seamlessly and turn smoothly without your manual touch. You could shift your attention to planning what's next while monitoring your current production in real time through the John Deere Operations Center™.

Now let's talk autonomy. John Deere offers Autonomy Prep on the 8RT Tractor, which gives you the option to equip your tractor with some of the hardware components needed to operate autonomously in the future.

The 8R and 8RX are now Autonomy Ready—one step closer to fully autonomous. What this means: Additional components are built in at the factory level on Autonomy Ready models—beyond Autonomy Prep—that help enable the fully autonomous solution.<sup>1</sup>

All this and more can be found in our newly updated 8 Series Tractors with 230 to 410 hp.

#### 4-5 8R Tractors

See what you can accomplish in the 8R Tractor.

#### 6-7 8RX Tractors

It's the only fixed-frame, 4-track, row-crop tractor on the market.

#### 8-9 8RT Tractors

Experience straight-line pulling power plus excellent traction and flotation.

#### 10-15 Cab Comfort

Choose your level of comfort and convenience with the available cab packages.

#### 16-17 Visibility Packages

The visibility packages available provide a clear field of vision at any hour.

#### 18-19 Power and Efficiency

Discover uncompromised performance with a reliable engine and your choice of transmission.

#### 20-21 Precision Ag Technology

Make better decisions with better technology.

#### 22-23 Connected Support

With John Deere Connected Support™, your dealer can troubleshoot problems remotely to keep you running without a hitch.

#### 24-25 Parts and Attachments

Get more value and versatility with John Deere attachments.

#### 26-31 Specifications

Decide which tractor will best serve you.

#### 32 Dealer Support

Learn more about our incredibly responsive network.



<sup>1</sup> Will require Autonomy Kit and license once full autonomy is available.



# THE NEXT LEAP FORWARD IN 8R TRACTORS

More customization. More power. More reliability.\* Choose the perfect model for your operation among our 8 Series Tractors powered by the dependable 9.0L engine, and outfit it with one of the four excellent transmission options we offer.

You'll discover more capability, comfort, and ease-of-use in the 8 Series than ever before. A spacious cab. An exclusive seat with superior comfort and extra swivel. Improved visibility to the ground. LED lighting with 360-degree illumination. A new adjustable cab suspension system for a smoother ride. Sleek and refined cab styling. CommandPRO™ (IVT/EVT only) putting you in total control. Integrated StarFire™ 7500 receiver. G5<sup>Plus</sup> display and improved primary display unit as well as the latest in precision ag technology. Imagine how much more you can get done – and how much faster you can do it.

There are seven models to choose from and customize to your specifications, from 230 to 410 engine hp. Find out more at [JohnDeere.com/8R](http://JohnDeere.com/8R) or [JohnDeere.ca/8R](http://JohnDeere.ca/8R).

*\*Compared to previous models.*





**John Deere Central Tire Inflation System (CTIS)**

Run with ideal tire pressure with CTIS available on 8R Tractors. Inflate and deflate quickly at 2 PSI per minute from the cab with the press of a button. Lower tire pressure increases your footprint by 25%, reducing slip in the field by 2 to 4%. This lets you boost field productivity by 6% while reducing compaction and smearing.\*

*\*Based on internal John Deere testing*



# THE FUTURE IS RIGHT ON TRACK:

You're looking at a bold leap forward in the 8 Series: the 8RX Four-Track Tractor is the only fixed-frame four-track row-crop tractor on the market. Inspired by our innovative 9RX Tractors and including everything you love about the 8R Tractors, the 8RX has four independent tracks and a 4-post cab suspension to give you exceptional flotation, traction, and ride quality.

Boost your efficiency with factory integrated ExactRate™ tanks that offer 1,000 gallons of liquid capacity (3785.41 liters) and reduce ground pressure without hindering your visibility. Together with our planter solution, applying high-rate fertilizer at planting is easier than ever.

You'll experience outstanding pulling power and efficiency, thanks to the John Deere PowerTech™ 9.0L engine and various transmission options, including the Electric Variable Transmission (EVT). John Deere is the first to use an electric transmission.

Comfort is a top feature of the 8RX. Its larger cab\* and an adjustable seat with optional massager help you make it through long hours. Take total control of your machine in your hand with CommandPRO (IVT/EVT only). You'll also get an integrated StarFire™ 7500 receiver, G5<sup>Plus</sup> display, improved primary display unit, and even more precision ag technology.

*\*Compared to previous models.*

## CHOOSE FROM EIGHT TREAD SETTINGS:

- 76 in (193 cm)
- 80 in (203 cm)
- 88 in (223 cm)
- 120 in (305 cm)
- 132 in (335 cm)
- 136 in (345 cm)
- 144 in (366 cm)
- 152 in (386 cm)

## FOUR TRACK WIDTHS TO FIT YOUR CROP AND FIELD CONDITIONS

- 16.5 in (42 cm)
- 18 in (46 cm)
- 24 in (61 cm)
- 30 in (76 cm)



# 8RX TRACTORS



John Deere tractors with EVT transmissions can now use the power offboarding feature with the Spudnik AirSep™ Harvester. This enables precise speed control of the electric fan and improves cleaning of potatoes, separates rocks and debris, and maximizes profitable yield.

## Wide Row Spacing Options

Get additional row spacing options with 132-inch (335.28 cm), 136-inch (345.44 cm), 144-inch (365.76 cm), and 152-inch (386.08 cm) row spacing kits, available in all four track widths. ExactRate liquid fertilizer system is available on all these configurations.

# GO TO THE NEXT LEVEL.

The updated 8RT Two-Track Tractor is here. The 8RT delivers the straight-line pulling power and the traction and flotation you need to handle your toughest jobs. The two-track design reduces ground pressure up to 37% compared to wheel models, reducing soil compaction<sup>1</sup>.

*You asked for straight-line pulling power and efficiency.* The 8RT delivers with the John Deere PowerTech 9.0L engine and your choice of transmission, including the Electric Variable Transmission (EVT).

*You asked for greater operator comfort.* The 8RT delivers with an incredibly comfortable seat, exclusive AirCushion™ Suspension, and 4-post cab suspension.

*You need greater machine control in one hand.* That's exactly what the CommandPro (IVT or EVT only) delivers. Enjoy an integrated StarFire™ 7500 receiver, G5<sup>Plus</sup> display, improved primary display unit, and the latest in precision ag technology.

Four models available, from 310 to 410 engine hp. Find out more at [JohnDeere.com/8R](http://JohnDeere.com/8R) or [JohnDeere.ca/8R](http://JohnDeere.ca/8R).



Tread spacing from 72"-160" (183 - 406.4 cm) on 16.5", 18", 24", 25", and 30" (41, 45, 61, 63 and 76 cm) track widths to fit your job.



# TWO-TRACK TRACTORS.

## 8RT TRACTORS



# CAB SWEET CAB

When the hours are long and the terrain is tough, there's no better place to be than your home away from home — our cab. A new adjustable cab suspension<sup>1</sup> features three levels of firmness that can be adjusted straight from the cab with a touch of a button.

Enjoy a cooler cab and clearer, more visible operator screens due to the rear window tint on the CommandView™ 4 cab glass. Choose from these options; amenities vary by package.

Discover more details at [JohnDeere.com/8R](http://JohnDeere.com/8R) or [JohnDeere.ca/8R](http://JohnDeere.ca/8R).

## Select

- Cloth seat with mechanical controls and mechanical lumbar support; 8° left-hand and 40° right-hand swivel
- AM/FM/WX radio with auxiliary and Bluetooth inputs; 4 speakers
- Business-band ready
- 4 USB ports and 12V outlet
- Dual-tilt steering column
- Foot rests

## Premium

- Cloth seat with electronic controls and pneumatic lumbar support; 25° left-hand and 40° right-hand swivel
- 6.5-inch (16.5 cm) touchscreen radio, SiriusXM ready; 6 speakers with subwoofer
- Business-band ready
- 4 USB ports, 12V outlet
- Dual-tilt steering column
- Foot rests
- Refrigerator
- Right-hand accessory rail
- 120V outlet

## Ultimate

- Leather seat with electronic controls, massage and pneumatic lumbar support; 25° left-hand and 40° right-hand swivel; heated and ventilated; adjustable bolsters
- 6.5-inch (16.5 cm) touchscreen radio, SiriusXM ready; 6 speakers with subwoofer
- Business-band ready
- 4 USB ports, 12V outlet
- Dual-tilt steering column
- Foot rests
- Refrigerator
- Right-hand accessory rail
- Carpeted floor mat
- Leather-wrapped steering wheel
- 120V outlet

<sup>1</sup>Adjustable cab suspension only available on the 8R.



**John Deere Signature Edition**

You and your tractor keep your operation going. So you deserve the best. The Signature Edition 8 Series Tractor gives you just that, ensuring operator comfort, max productivity, and longer uptimes with higher efficiency. Includes the Ultimate Comfort and Convenience package, Ultimate Visibility package, adjustable cab suspension or ActiveSeat II and G5 Advanced package.

# OWN THE DAY

Take a seat and get ready to log some serious hours in comfort, style, and peak productivity. A higher backrest\* and adjustable side bolsters let you sit comfortably within the seat. The massaging feature helps keep you alert when you're spending long hours in the cab. And since the seat is heated and ventilated, you'll stay warm or cool depending on the season. (Available in Ultimate Comfort & Convenience Package only.)



\*Compared to previous models.



# ENJOY THE VIEW

The view is crystal clear from any angle. Look at implements behind you with ease, thanks to three times more swivel to the right compared with previous models. Pneumatic lumbar support and electronic controls let you adjust your in-cab position with ease.





# OWN THE NIGHT

This is no 9- to- 5 job. So take charge of your night when the daytime work hours aren't enough to get the job done. Our lighting packages illuminate the path to nighttime productivity. Get twice the light with LED bulbs\* when compared to Halogen bulbs for a brighter, 360-degree illumination of the field around you. Choose from three Visibility Packages to help you make the most of your time; amenities vary by package.

Select	Premium	Ultimate
<ul style="list-style-type: none"><li>● 16 Halogen work lights</li><li>● Mechanical exterior mirrors</li><li>● Front window sunshade</li><li>● Front and rear window wipers</li><li>● Camera ready</li></ul>	<ul style="list-style-type: none"><li>● 18 LED work lights</li><li>● Electronic, heated exterior mirrors</li><li>● Front, right-hand, and rear window sunshades</li><li>● Front, right-hand, and rear window wipers</li><li>● Camera ready</li></ul>	<ul style="list-style-type: none"><li>● 22 LED work lights, 8 LED convenience lights</li><li>● Electric, heated, power telescoping exterior mirrors</li><li>● Front, right-hand, and rear window sunshades</li><li>● Front, right-hand, and rear window wipers</li><li>● Integrated cameras</li></ul>

\*LED lights are available in the Premium and Ultimate visibility packages.





*Ultimate Visibility package shown.*

8R/8RT/8RX Tractor power and efficiency

# SHIFT INTO HIGH GEAR

**Power of choice in transmissions.** Choose from several excellent transmission options with different benefits and capabilities. Whether you're looking for simple, reliable mechanical power or you want seamless control of your tractor and implements in the palm of your hand, we have a transmission that best fits your needs.





### **Electric Variable Transmission (EVT)**

Experience everything you appreciate from an IVT with the Electric Variable Transmission—available on 8R, 8RT, and 8RX 410 hp tractors. Using a combination of mechanical and electrical power, the EVT provides automatic control of engine rpm and ground speed. It also provides the ability for electric power generation.

### **Infinitely Variable Transmission (IVT™)**

Delivering the best in performance and operation, you can smoothly shift up from 0 to 26 or 31 mph (40 or 50 km/h) and any speed in between, including creeper speeds as low as 164 feet (50m) per hour.

### **e23™ PowerShift Transmission**

Pair the benefits of a mechanical transmission with the ease of an Infinitely Variable Transmission with the e23 PowerShift transmission. 23 forward gears are evenly spaced 15% apart to fit your different operating conditions and implements.

### **16-speed PowerShift Transmission**

Simple. Reliable. Cost-effective. The 16-speed PowerShift transmission delivers smooth on-the-go power delivery for fuel-saving performance.

**CommandPRO™ on the IVT or EVT models** delivers seamless control of your tractor and implements all in the palm of your hand. Move from parked to top speeds with a simple push of a button. Eleven customizable buttons let you match functions to the job, with options to configure various set speeds to keep you in command.



SEE **MORE.** KNOW **MORE.** DO **MORE.**

## G5<sup>Plus</sup> CommandCenter™ Display

Bigger. Faster. Clearer.

Ready to see more? Know more? DO more? The G5<sup>Plus</sup> CommandCenter™ Display gives you a bigger picture of your 8 Series performance and work in the field.

- 12.8-inch touchscreen – 35% larger to make on-the-go in-field adjustments easier<sup>1</sup>
- 3x faster processor ... for quicker boot times<sup>1</sup>
- High resolution 1080p screen for brighter, clearer views
- 2 digital and 4 analog video camera inputs
- Essential to be ready for future autonomous and sense-and-act technology

The G5<sup>Plus</sup> CommandCenter comes with a permanent AutoTrac™ and Section Control license. A permanent AutoTrac™ RowSense™ license is also available. For even more automation productivity there's also an optional G5 Advanced Package that bundles our most popular precision tools. More than a display, this is your path to the future of precision ag. Experience the benefits of the larger, faster, and clearer display no matter the job.

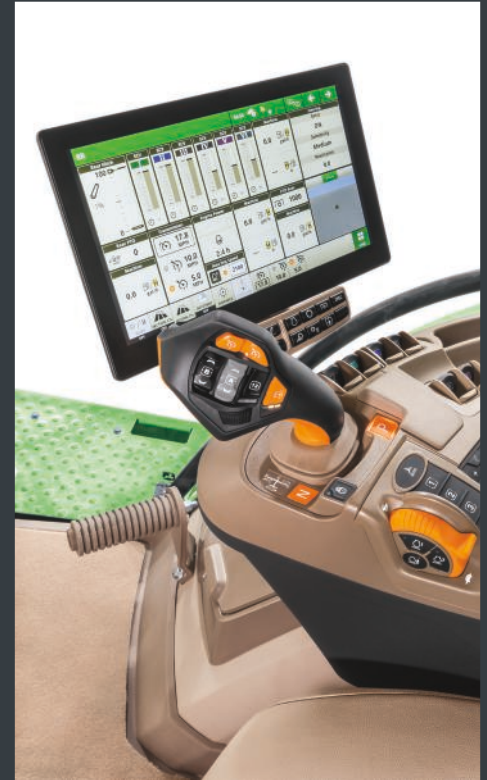
## John Deere Operations Center™

Unlock the full power of your farm data.

Imagine, managing your farm operations anytime, anywhere. You can with John Deere Operations Center™. It's a free<sup>2</sup>, online farm management system that enables 24/7 access to farm information through web, tablet, or mobile phone. Operations Center empowers you to manage your operation more efficiently, do a better job on every pass, reduce costs, and improve profitability.

With Operations Center, you can seamlessly connect data from your fields, your machines, and your operators and advisors. It puts at your fingertips all the information you need to maximize critical farm operations, from tillage, planting and seeding to applying and harvesting.

- Setup and manage your critical farm operations
- Plan work to reduce errors and gain efficiencies
- Monitor job quality and productivity in near real time
- Analyze this season's results to improve next season's crops



# G5 Advanced Package

More precision. More automation. More productivity.

Take your in-field productivity and performance to the next level with our optional G5 Advanced Package. It bundles some of Deere's most advanced precision ag tools into one easily renewable 1-year license. Tailored to your machines, G5 Advanced Package offers lower up-front cost, gets better over time, and you only pay for what your farm needs. Designed to make you more productive, more precise, and less stressed, the G5 Advanced Package includes:

**AutoPath™** – Forget guessing which guidance line to use, even in complex fields. No more counting rows in the field.

**AutoTrac™ Turn Automation** – Gives you hands-off and stress-free confidence from one pass to the next. Consistently enter each pass square to reduce gaps and rework.

**AutoTrac™ Implement Guidance** – Precise implement placement keeps spacing accurate, even on side hills or around curves.

**In-Field Data Sharing** – Day or night, between multiple machines and fields, you can share guidance lines, coverage maps, as-applied pass-to-pass data and field totals...without wasting time on radio chatter.

**Machine Sync** – On-the-go, stress-free unloading in every condition. Work faster, even with inexperienced grain cart operators.



<sup>1</sup> Compared with previous Generation 4 displays

<sup>2</sup> Activation required. JDLink™ hardware comes standard with the machine. The customer can turn on the JDLink service in their Operations Center account for free. JDLink requires a cellular connection to transfer information from machine to JDLink website. Consult your John Deere Dealer for coverage availability.

# CONNECTED TO WHAT COUNTS

We know peace of mind is important to you. That's why we provide comprehensive protection and warranty packages – along with superior customer support to keep your new 8 Series Tractor operating at its best. From PowerGard™ and John Deere Protect™ to John Deere Connected Support, we have just what you need to keep running all year long.

## POWERGARD

The PowerGard Protection Plan<sup>1</sup> offers valuable extended warranty coverage to protect your new 8 Series Tractor from the unexpected and to ensure it's ready when you need it. PowerGard is available when purchased during the initial 12-month basic warranty<sup>2</sup> and provides two options:

- **Comprehensive** (for main components of the full machine)
- **Limited** (for main components of the engine and powertrain)

### Other benefits of a PowerGard Protection Plan include:

- Select from a variety of flexible term lengths, in total months and total hours.
- No pre-approval of claims necessary. Call or visit any authorized John Deere dealership for service.
- Expert dealer technicians will fix it right, with exactly the right John Deere parts to fit your machine.
- Any remaining PowerGard coverage is fully transferable to a new owner, with no transfer fee.

Learn more at [JohnDeere.com/PowerGard](http://JohnDeere.com/PowerGard) or [JohnDeere.ca/PowerGard](http://JohnDeere.ca/PowerGard).

## JOHN DEERE PROTECT

The John Deere Protect Maintenance Plus Plan is designed to help you maintain original performance and uptime of your new John Deere 8 Series Tractor, with two coverage options to choose from:

- For the first 36 months/1,500 or 3,000 engine hours (with no deductible<sup>3</sup> and no additional charges).
- For the first 60 months/3,000 or 5,000 engine hours (with no deductible<sup>3</sup> and no additional charges).

### The John Deere Protect Maintenance Plus Plan<sup>4</sup> includes:

- Annual Expert Inspections
- Scheduled Maintenance Events
- You can buy the plan when purchased in conjunction with a PowerGard Comprehensive Protection Plan<sup>5</sup>.

Learn more at [JohnDeere.com](http://JohnDeere.com) or [JohnDeere.ca](http://JohnDeere.ca).

<sup>1</sup> The PowerGard Protection Plan does not cover attachments, maintenance or wear parts, nor other non-covered components specifically mentioned in the contract terms. Other terms, conditions, exclusions and warranty limitations apply.

<sup>2</sup> All new John Deere 8R Series tractors come with a standard basic warranty of 12 months. Terms, conditions, exclusions and warranty limitations apply. See your John Deere Dealer for details.

<sup>3</sup> PowerGard deductible applies to any failures under PowerGard coverage.

<sup>4</sup> For complete plan details, contact a participating dealer near you.

<sup>5</sup> PowerGard Comprehensive Protection Plan with a minimum term of 36 months/1,500 or 3,000 engine hours and 60 months/3,000 or 5,000 hours must be purchased separately to be eligible for John Deere Protect extended service plans. Additional details are included in the selling descriptions of each included plan. Other terms, conditions, exclusions and warranty limitations apply.

<sup>6</sup> Activation required. JDLink hardware comes standard with the machine. You can turn on JDLink connected service in your Operations Center account for free. JDLink requires a cellular connection to transfer information from machine to a JDLink website. Consult your John Deere Dealer for coverage availability.



## JOHN DEERE CONNECTED SUPPORT

Your 8 Series Tractor comes standard with JDLink<sup>6</sup> hardware, and you can activate JDLink service for free from your Operations Center account. Once activated, your John Deere dealer offers the connection needed to keep you running when it's crunch time. With your approval, JDLink provides the bridge to proactive and predictive alerts that identify issues before they arise and from there, the dealer can remotely assess the problem saving you time and money.

### Service ADVISOR™ Remote

Allows your dealer to remotely analyze Diagnostic Trouble Codes in near real time so technicians arrive on-site with the right parts and the right tools to quickly repair your tractor.

### Proactive Alerts

Avoid possible downtime by allowing your dealer to remotely monitor your tractor. If they spot a possible issue, they can proactively alert you before it becomes a costly, time-eating problem.

### Remote Display Access

Lets you or your dealer remotely assist with in-cab display setup and adjustments for optimal tractor performance.

Learn more at [JohnDeere.com/ConnectedSupport](https://JohnDeere.com/ConnectedSupport) or [JohnDeere.ca/ConnectedSupport](https://JohnDeere.ca/ConnectedSupport).

# EXPERIENCE THE JOHN DEERE DIFFERENCE

From the person at the parts counter to the technician inspecting your machine, your John Deere dealer team is trained to know the ins and outs of your new 8 Series Tractor. It's an important piece of the John Deere Difference, but not the only one.

You'll notice others whenever you connect with your dealer. Like when you walk out the door with the right part, attachment or precision upgrade that meets both your expectations and your budget. Or when you get questions answered remotely while you keep working in the field.

But the John Deere Difference goes even further by offering:

- Genuine John Deere Parts, Reman and A&I Products
- 12-months limited parts and labor warranty<sup>1</sup>
- Multiple financing options<sup>2</sup>

With all that, you can be confident that your local John Deere dealer has you covered season after season.



<sup>1</sup>12 month/unlimited hour warranty on most new John Deere agricultural parts when installed by an authorized John Deere Dealer. 6 month/unlimited hour warranty for most new John Deere agricultural and turf equipment parts. See John Deere Service Parts Warranty US & Canada and participating dealers for more details. Most A&I/Sunbelt parts carry a 1-year warranty. Some exclusions apply. See your participating A&I re-seller or John Deere Dealer for more details.

<sup>2</sup>Financing on approved John Deere Financial credit only Contact your Multi-Use Account merchant or dealer for complete details





**MOUNTING POWER STRIP**

Install a convenient power source to the interior of your tractor cab. Lets you plug in displays, monitors and other electronic devices.

**RE596958:** Mounting Power Strip (6 outlets)

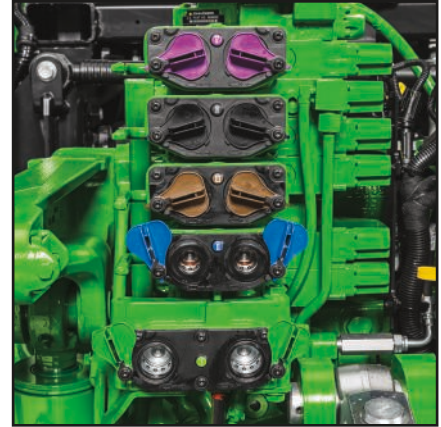
**BRE10575:** Short Vertical Mounting Rail



**REAR MID-BODY LED LIGHT KIT**

Work into the wee hours of the night or well before the sun rises with LED lights. Kit provides easy installation at rear cab corners of your tractor. No software required.

**BRE10446:** Rear Mid-Body LED Kit (4 lights)



**Selective Control Valve (SCV) Coupler Kits**

Boost the hydraulic capacity on your tractor by upgrading 0.5" (1.27 cm) standard flow SCV to a 0.75" (1.905 cm) high-flow SCV. Only one 0.75" (1.27 cm) SCV is compatible per tractor.

**BRE10107:** 0.75-in (1.27 cm) Coupler Kit (1 SCV)



**SPACING KITS**

Adjust the front and rear track spacing of an RX Tractor to meet the needs of crop production with these fixed spacing options. These kits allow operators to reconfigure to the desired measurement.

**BXX10970:** 144-in. (365.76 cm) spacing, front axle kit.

**BXX10912:** 144-in. (365.76 cm) spacing, rear axle kit.

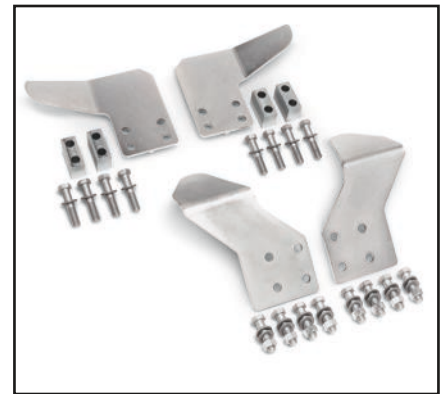
Additional spacing kits from 76" (193.04 cm) up to 152" (386.08 cm) are available.



**EXACTRATE™ TRACTOR TANK KIT**

You can cover more acres, between fills, with our industry exclusive 1000-gallon (3785 liter) fertilizer tanks for field install on 8RX tractors built after 2020\*.

*\*Additional Parts Required to Complete Installation.*



**DEBRIS MANAGEMENT KITS**

Add mileage to your 8RX track belts with debris management kits. Help belts last a lot longer by mitigating harmful debris buildup.

**BRE10407:** Idler Debris Deflection Shield Kit

**BRE10358:** Driver Sprocket Debris Management Kit

POWER	8R 230	8R 250	8R 280	8R 310	8R 340	8R 370	8R 410
Rated PTO power (hp SAE) at rated engine speed†	182 hp (135 kW)	200 hp (149 kW)	228 hp (170 kW)	257 hp (191 kW)	284 hp (211 kW)	310 hp (231 kW)	310 hp (231 kW)
Rated engine power PS (hp ISO) at rated engine speed (ECE-R120)*	230 hp (169 kW)	250 hp (184 kW)	280 hp (206 kW)	310 hp (228 kW)	340 hp (250 kW)	370 hp (272 kW)	410 hp (302 kW)
Max engine power PS (hp ISO) at max engine power speed (ECE-R120)*	253 hp (186 kW)	275 hp (202 kW)	308 hp (227 kW)	341 hp (251 kW)	374 hp (275 kW)	407 hp (299 kW)	443 hp (326 kW)
Intelligent Power Management* (Available)	35 additional engine horsepower PS (hp ISO) at 2,100 rpm (rated speed)						
PTO torque rise	40%						
PTO power bulge	10%						
<b>ENGINE</b>							
Manufacturer (US EPA Final Tier 4)	John Deere PowerTech™ 9.0L (B20 diesel compatible)						
Rated speed	2,100 rpm						
Aspiration	Single turbocharger, variable geometry turbo					Dual turbochargers, variable geometry turbo with fixed geometry turbo in series	
Displacement	549 cu in (9.0L)						
<b>FUEL SYSTEM</b>							
Electronically controlled, high-pressure common rail with electric fuel transfer pump (self priming)							
Required fuel type	Ultra low sulfur diesel (B20 diesel compatible)						
<b>TRANSMISSIONS</b>							
16-speed PowerShift; 16F, 5R** with APS (Auto Power Shift)	Available (Forward: 40 km/h @ 1952 erpm, with group 49 tires, 40 km/h @ 2057 erpm, with group 48 tires, 40 km/h @ 2168 erpm, with group 47 tires Reverse: 15.2-16.9 km/h/lb, c**				NA		
e23 PowerShift 40K, 26 mph (40 km/h)	Standard (Forward: 40 km/h @ 1339 ECO erpm, with group 49 tires, 40 km/h @ 1412 ECO erpm, with group 48 tires, 40 km/h @ 1488 ECO rpm with group 47 tires Reverse: 30 km/h/c**						
e23 PowerShift 50K, 31 mph (50 km/h)	Available (Forward: 40 km/h @ 1674 ECO erpm, with group 49 tires, 50 km/h @ 1765 ECO erpm, with group 48 tires, 50 km/h @ 1859 ECO rpm with group 47 tires Reverse: 30 km/h/c**						
John Deere Infinitely Variable Transmission (IVT™), 26 mph (40 km/h)	Available (Forward: 0.05 - 40 km/h, 40 km/h @ 1292 ECO erpm, with group 49 tires, 40 km/h @ 1360 ECO erpm, with group 48 tires, 40 km/h @ 1433 ECO rpm with group 47 tires Reverse: 0.05 - 30 km/h/c**						NA
John Deere Infinitely Variable Transmission (IVT™), 31mph (50 km/h)	Available (Forward: 0.05 - 50 km/h, 50 km/h @ 1615 ECO erpm, with group 49 tires, 50 km/h @ 1700 ECO erpm, with group 48 tires, 50 km/h @ 1791 ECO rpm with group 47 tires Reverse: 0.05 - 30 km/h/c**						NA
Electric Variable Transmission (EVT) 26mph (40km/h)	NA						Available (Forward: 0.05 - 40 km/h, 40 km/h @ 1148 ECO erpm, w/ group 49 tires, 40 km/h @ 1148 ECO erpm, w/ group 48 tires Reverse: 0.05 - 30 km/h/c**
Electric Variable Transmission (EVT) 31mph (50km/h)	NA						Available (Forward: 0.05 - 50 km/h, 50 km/h @ 1410 ECO erpm, w/ group 49 tires, 50 km/h @ 1524 ECO erpm, w/ group 48 tires Reverse: 0.05 - 30 km/h/c**
<b>ELECTRICAL SYSTEM</b>							
Two batteries in parallel							
Alternator/Battery	Standard: 250 amps / 12 volt, Available: 330 amps / 12 volt						
Total cold cranking amps	1850 (2-925 CCA grp 31 batteries)						
<b>REAR AXLES</b>							
110 x 3010 mm diameter (4.33 x 118.5 in), single taper hub	Standard			NA			
110 x 3010 mm diameter (4.33 x 118.5 in), dual taper hub	Available			NA			
120 x 3010 mm diameter (4.72 x 118.5 in), dual taper hub	Available			Standard		NA	
120 x 2550 mm diameter (4.72 x 100.4 in), double flat axle with single taper hub	Available						
120 x 3010 mm diameter (4.72 x 118.5 in), double flat axle with single taper hub	Available			Standard			
<b>FRONT AXLES</b>							
1300 Series MFWD - tread range 60 to 88 in (1524 to 2235 mm) 5 step drop	Standard			NA			
1500 Series MFWD - tread range 60 to 144 in (1524 to 3657 mm) 5 step drop				Available w/ or w/o duals			
ILS - tread range 60 to 144 in (1524 to 3657 mm) 5 or 6 step drop	Available w/ or w/o duals			Standard w/ or w/o duals			
<b>DIFFERENTIAL LOCK - FRONT AXLE</b>							
1300 Series MFWD	Limited Slip			NA			
1500 Series MFWD				Full-locking electrohydraulic (actuated at same time as rear diff-lock)			
ILS				Full-locking electrohydraulic (actuated at same time as rear diff-lock)			
<b>HYDRAULIC SYSTEM</b>							
Closed-center, pressure/flow compensated system with load sensing							
Rear selective control valves with 1/2 in ISO couplers				Standard: 4; Available: 5 - 6			
Rated flow, 85cc pump				60 gpm (227 lpm)			
Rated flow, dual pump 85cc plus 35cc				84 gpm (318 lpm)			
<b>3-POINT HITCH - REAR</b>							
(lift capacity per OECD: 24 inch / 610 mm behind the coupler) Electrohydraulic sensing							
Category 3/3N w/ Quick-Coupler	Standard: 15,200 lb (6895 kg)			NA			
Category 3/3N w/ Quick-Coupler	Available: 18,500 lb (8391 kg)			NA			
Category 4N/3 w/ Quick-Coupler				Available: 15,200 lb (6893 kg)			
Category 4N/3 w/ Quick-Coupler	Available: 20,000 lb (9072 kg) [requires 120mm dia axle]			Standard: 20,000 lb (9072 kg) [requires 120mm dia axle]			
Category 3/3N w/ hook ends (sway blocks)	Available: 15,200 lb (6893 kg)			NA			
Category 3/3N w/ hook ends (sway blocks or deluxe stabilizers)	Available: 20,000 lb (9072 kg)			NA			
Category 4N/3 w/ hook ends (sway blocks or deluxe stabilizers)				Available: 19,841 lb (9000 kg) [requires 120mm dia axle]			
<b>DRAWBAR</b>							
Category 3	4,050 lb (1837 kg) - 6,000 lb (2700 kg) maximum vertical load dependent on drawbar position			NA			
Category 4				4,950 lb (2245 kg) maximum vertical load			
Cat 4 w/HD support				11,000 lb (4990 kg) maximum vertical load			
<b>REAR POWER TAKE OFF (PTO)</b>							
Independent, electrohydraulic switched via oil-cooled multi-disc clutch							
1-3/4 in, 20-spline, 1,000-rpm				Standard			
1-3/4 in, 20-spline, 1,000-rpm; capable of 1-3/4 in 540/1000 rpm				Available		NA	
1-3/4 in, 20-spline, 1,000-rpm / 1,000E RPM				Available			
<b>CAPACITIES</b>							
Fuel tank	192 gal (727 L), w/ CTIS 172 gal (651 L)						727 L (192 gal), w/ CTIS 651 L (172 gal) w/EVT 651 L (172 gal)
DEF tank	9.8 gal (37.2 L)						
<b>WHEELBASE</b>							
1300 Series MFWD / 1500 Series MFWD & ILS	121.3 in (3080 mm) / 120 in (3050 mm)			NA / 120.1 in (3050 mm)			
MFWD / ILS axle clearance	27 in (686 mm) / 23.2 in (590 mm)						
<b>AVERAGE BASE WEIGHT</b>							
IVT, ILS, 420/85R34 front tires, 480/80R50 rear tires, dual pumps, 6 SCVs, PTO, CAT4 hitch, HD drawbar, shipping fuel				27,800 lb (12600 kg)			
e23, ILS, 600/70R30 front tires, 710/70R42 rear tires, dual pumps, 6 SCVs, PTO, CAT4 hitch, HD drawbar, shipping fuel				28,000 lb (12700 kg)			
16spd, 1500 MFWD, 380/80R38 front tires, 480/80R50 rear tires, single pump, 4 SCVs, PTO, CAT3 hitch, std. drawbar, shipping fuel	25,200 lb (11400 kg)			NA			
<b>WEIGHT CAPACITIES</b>							
Max ballast level	44,100 lb (20003 kg) - see OM for specific ballast instructions						
Max permissible weight	44,100 lb (20003 kg) - see OM for specific ballast instructions						

# 8R TRACTOR

# SPECIFICATIONS



Specifications and design subject to change without notice. See [JohnDeere.com](http://JohnDeere.com) for full listing of specifications. Pre-production models shown.

\* John Deere Standard RES10080, SAE Standards J1995.

\*\* Base tractor configuration on level ground, with specified tires groups above at mfg recommendation for tire pressure. erpm, are load dependent.

† PTO power for IVT models. Does not include available equipment losses. Nominal data is metric. Standard data is converted from metric data. Use metric for all calculations.

# 8RT TRACTOR

POWER	8RT 310	8RT 340	8RT 370	8RT 410
Rated PTO power (hp SAE) at rated engine speed† *	246 hp (183 kW)	273 hp (203 kW)	300 hp (223 kW)	300 hp (223 kW)
Rated engine power PS (hp ISO) at rated engine speed (ECE-R120)*	310 hp (228 kW)	340 hp (250 kW)	370 hp (272 kW)	410 hp (302 kW)
Max engine power PS (hp ISO) at max engine power speed (ECE-R120)*	341 hp (251 kW)	374 hp (275 kW)	407 hp (299 kW)	443 hp (326 kW)
Intelligent Power Management* (Available)	35 additional engine horsepower PS (hp ISO) at 2,100 RPM (rated speed)			
PTO torque rise	40%			
PTO power bulge	10%			
<b>ENGINE</b>				
Manufacturer (US EPA Final Tier 4)	John Deere PowerTech™ 9.0L (B20 diesel compatible)			
Rated speed	2,100 rpm			
Aspiration	Single turbocharger, variable geometry turbo		Dual turbochargers, variable geometry turbo with fixed geometry turbo in series	
Displacement	549 cu in (9.0L)			
<b>TRANSMISSIONS</b>				
e23 PowerShift 40K, 26 mph (40 km/h) with Efficiency Manager™	Standard			
Infinitely Variable Transmission (IVT™) 26 mph (40 km/h)	Available			NA
Electric Variable Transmission (EVT) 26mph (40km/h)	NA			Available
<b>ELECTRICAL SYSTEM</b>				
Alternator/Battery	Standard: 250 amps / 12 volt, Available: 330 amps / 12 volt			
Total cold cranking amps	1850 (2-925 CCA grp 31 batteries)			
<b>REAR AXLES</b>				
Tread spacing, standard	72 - 120 in (1829 - 3048 mm)			
Tread spacing, available	112 - 160 in (2845 - 4064 mm)			
Drive type	Friction			
Track width	16.5 in (419 mm), 18 in (457 mm), 24 in (609 mm), 25 in (635 mm), 30 in (762 mm)			
<b>HYDRAULIC SYSTEM</b>				
Closed-center, pressure/flow compensated system with load sensing				
Rear selective control valves with 1/2" in ISO couplers	Standard: 4; Available: 5 - 6			
Rated flow, 85cc pump	60 gpm (227 lpm)			
<b>3-POINT HITCH - REAR</b> Lift capacity per OECD: 24 inch / 610 mm behind the coupler				
			Electrohydraulic sensing	
Category 4N/3 with Quik-Coupler and sway blocks	Available: 15,200 lb (6894 kg)			
Category 4N/3 with Quik-Coupler and sway blocks	Standard: 20,000 lb (9072 kg)			
<b>DRAWBAR</b>				
Cat 4	Available: 4,950 lb (2245 kg) maximum vertical load			
Cat 4 w/ HD support	Standard: 11,000 lb (4990 kg) maximum vertical load			
<b>REAR POWER TAKE OFF (PTO)</b>				
Independent, electrohydraulic switched via oil-cooled multi disk clutch				
1-1/2" in (45 mm), 20-spline, 1,000-rpm	Standard			
<b>CAPACITIES</b>				
Fuel tank	202 gal (764 L)			
DEF tank	8.3 gal (31.3 L)			
<b>WHEELBASE</b>				
Description	97.5 in (2477 mm)			
<b>AVERAGE BASE WEIGHT</b>				
e23, 30 in tracks, 5 SCVs, CAT4 hitch, HD drawbar, shipping fuel	36,500 lb (16600 kg)			
IVT, 18 in tracks, 5 SCVs, CAT4 hitch, HD drawbar, shipping fuel	35,850 lb (16200 kg)			

Specifications and design subject to change without notice. See JohnDeere.com for full listing of specifications. Pre-production models shown.

\* John Deere Standard RES10080, SAE Standards J1995.

† PTO power for IVT models. Does not include available equipment losses. Nominal data is metric. Standard data is converted from metric data. Use metric for all calculations.



# SPECIFICATIONS



# 8RX TRACTOR

POWER	8RX 310	8RX 340	8RX 370	8RX 410
Rated PTO power (hp SAE) at rated engine speed†	257 hp (191 kW)	284 hp (211 kW)	310 hp (231 kW)	310 hp (231 kW)
Rated engine power PS (hp ISO) at rated engine speed (ECE-R120)*	310 hp (228 kW)	340 hp (250 kW)	370 hp (272 kW)	410 hp (302 kW)
Max engine power PS (hp ISO) at max engine power speed (ECE-R120)*	341 hp (251 kW)	374 hp (275 kW)	407 hp (299 kW)	443 hp (326 kW)
Intelligent Power Management* (Available)	35 additional engine horsepower PS (hp ISO) at 2,100 RPM (rated speed)			
PTO torque rise	40%			
Engine power bulge*	10%			8%
<b>ENGINE</b>				
Manufacturer (US EPA Final Tier 4)	John Deere PowerTech™ 9.0L (B20 diesel compatible)			
Rated speed	2,100 rpm			
Aspiration	Single turbocharger, variable geometry turbo		Dual turbochargers, variable geometry turbo with fixed geometry turbo in series	
Displacement	549 cu in (9.0L)			
<b>TRANSMISSIONS</b>				
e23 PowerShift 40K, 26 mph (40 km/h) with Efficiency Manager™	Standard			
Infinitely Variable Transmission (IVT™) 26 mph (40 km/h)	Available			NA
Electric Variable Transmission (EVT) 26mph (40km/h)	NA			Available
<b>ELECTRICAL SYSTEM</b>				
Alternator/Battery	Standard: 250 amps / 12 volt, Available: 330 amps / 12 volt			
Total cold cranking amps	1850 (2-925 CCA grp 31 batteries)			
<b>REAR AXLES</b>				
Tread spacing	Flange axle 76 in (1930.4 mm), 80 in (2032 mm), 88 in (2235 mm), 120 in (3048 mm)			
Drive type	Positive			
Track width	16.5 in (419 mm), 18 in (457 mm), 24 in (610 mm), 30 in (762 mm)			
<b>FRONT AXLE</b>				
1700 Series MFWD - tread spacing	76 in (1930.4 mm), 80 in (2032 mm), 88 in (2235 mm), 120 in (3048 mm), 132 in (335 cm), 136 in (345 cm), 144 in (365 cm), 152 in (386 cm) kits available			
Drive type	Positive			
Track width	16.5 in (419 mm), 18 in (457 mm), 24 in (610 mm), 30 in (762 mm)			
<b>HYDRAULIC SYSTEM</b>				
	Closed-center, pressure/flow compensated system with load sensing			
Rear selective control valves with 1/2 in ISO couplers	Standard: 4; Available: 5 - 6			
Rated flow, single pump 85cc	60 gpm (227 lpm)			
Rated flow, dual pump 85cc plus 35cc	84 gpm (318 lpm)			
<b>3-POINT HITCH - REAR</b> Lift capacity per OECD: 24 inch / 610 mm behind the coupler				
	Electrohydraulic sensing			
Category 4N/3 with Quik-Coupler and sway blocks	Available: 15,200 lb (6894 kg)			
Category 4N/3 with Quik-Coupler and sway blocks	Standard: 20,000 lb (9072 kg)			
Category 4N/3 with hook ends (deluxe stabilizers)	Available: 19,841 lb (9000 kg)			
<b>DRAWBAR</b>				
Category 4	Available: 4,950 lb (2245 kg) maximum vertical load			
Category 4 w/HD Support	Standard: 11,000 lb (4990 kg) maximum vertical load			
<b>REAR POWER TAKE OFF (PTO)</b>				
	Independent, electrohydraulic switched via oil-cooled multi disk clutch			
1-3/4 in (45 mm), 20-spline, 1,000-rpm	Standard			NA
1-3/4 in, 20-spline, 1,000-rpm; capable of 1-3/8 in 540/1000 rpm	Available			
1-7/8 in, 20-spline, 1,000-rpm / 1,000 RPM	Available			
<b>CAPACITIES</b>				
Fuel tank	244 gal (924 L)		e23 924 L (244 gal), w/EVT 829 L (219 gal)	
DEF tank	9.8 gal (37.2 L)			
<b>WHEELBASE</b>				
MFWD	127.36 in (3235 mm)			
<b>AVERAGE BASE WEIGHT</b>				
e23, 24in front, 30in rear, 88in spacing, dual pumps, 5 SCVs, PTO, CAT4 hitch, HD drawbar, shipping fuel	41,600 lb (18900 kg)			
IVT, 18in front, 18in rear, 120in spacing, dual pumps, 5 SCVs, PTO, CAT4 hitch, HD drawbar, shipping fuel	43,000 lb (19500 kg)			
<b>WEIGHT CAPACITIES</b>				
Max ballast level	44,100 lb (20000 kg) - see OM for specific ballast instructions			
Max permissible weight	53,000 lb (24040 kg) - see OM for specific ballast instructions			
<b>ExactRate™ TRACTOR TANKS</b>				
Tank capacity (total fluid)	NA		1000 gal (3785 L)	

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# SPECIFICATIONS





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