

# 8R Series Tractors

206 to 280 kW (280 to 380 hp) 97/68EC with Intelligent Power Management





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## The seat of power.

To work the land from one horizon to the other you need a tractor that leads the way in power and versatility. But it should also be exceptionally comfortable and highly efficient so you can stay refreshed and productive. Both night and day.

That's why it's time you discovered the new 8R Tractor Series from John Deere. It's amazing pulling power and easy to manage technology are proof of how far engineering ingenuity for large tractors has come.

The 8R and 8RT Series tractors give you more speed and comfort – in the field and on the road. They merge near flawless reliability with state-of-the-art technical features to satisfy your real requirements and they ensure the quality, fingertip controls and exceptional performance you require to accomplish more work with less effort.

Take productivity to new heights as you stretch out in spacious comfort. Go to work ... in the seat of power.

### Grow profits with:

- The leading performance and efficiency of our PowerTech Plus engines and Intelligent Power Management
- The comfort and control of the CommandView II Cab
- The reliability and effectiveness of our AutoPowr and PowerShift transmissions
- The time saving advantages of our Ag Management Systems
- The versatility of our 360° lighting, rugged hydraulics and hitches
- The peace of mind of John Deere's service and support



## We took the best and made it better.

Thoroughly upgrading the five wheel and three all-new tracked versions of our 8R Series tractors meant preserving the highest levels of performance and efficiency while integrating a wide range of new features. And, being perfectionists, we committed ourselves to enhancing the pulling power of these legendary tractors. Did we get it right?

### Have a look.

Both versions of the 8R Tractor Series can be tailored to your specific requirements. So you'll easily complete every tractor based task your farming business demands.

## The new features you want:

- A more spacious, quiet, comfortable cab
- Completely updated CommandArm controls
- Corner Post Display and optimised CommandCenter control with added functionality
- 360° exterior lighting
- An automotive fit and finish
- More storage and power outlets
- Efficient, high performance air conditioning
- An outstanding radio/audio solution
- Improved visibility and hydraulics
- Integrated ISO Bus capability
- Tracked Tractors now with:
  - Air-cushion suspension system
  - 40 km/h transportation speed
  - More lift, hydraulic and fuel capacity
  - Optional AutoPowr transmission
  - Optional IPM
  - Two drive wheel and mid roller options



### 8R wheeled models (Rated Power 97/68EC)

- 8245R – 180 kW (245 hp) (280 hp with Intelligent Power Management)
- 8270R – 199 kW (270 hp) (305 hp with Intelligent Power Management)
- 8295R – 217 kW (295 hp) (330 hp with Intelligent Power Management)
- 8320R – 235 kW (320 hp) (355 hp with Intelligent Power Management)
- 8345R – 254 kW (345 hp) (380 hp with Intelligent Power Management)



## The standard features you love:

- PowerTech Plus 9.0 L engine
- VariCool cooling system
- Integrated CAN-bus electronics
- A choice of transmissions
- Powerful rear hitches up to 11.7 tons lift capacity (and up to 12.7 tons on 8320/8345RT)
- Prewired for AutoTrac technology
- Large 681 l fuel tank for 8R and 758 l fuel tank for 8RT
- Easy to read corner post monitor

## The options you prefer:

- Exclusive John Deere ActiveSeat (wheel models only)
- AutoPowr transmission available on all models
- Cat IV rear hitch (base on 8320R and 8345R)
- Colour and Touch screen GREENSTAR 2 display
- Exclusive front independent link suspension (standard on 8320R and 8345R)
- Powerful Front Hitch with 5.2 tons lift capacity on 8R
- Premium HID lighting (Xenon)
- Deluxe and Premium Radio Package
- Leather Package (steering wheel, operator and instructor seat) with heated operator seat
- Electronically adjustable and telescopic outside mirrors

### 8RT tracked models (Rated Power 97/68EC)

**8295RT** – 217 kW (295 hp) (330 hp with Intelligent Power Management)

**8320RT** – 235 kW (320 hp) (355 hp with Intelligent Power Management)

**8345RT** – 254 kW (345 hp) (380 hp with Intelligent Power Management)

## XXXL comfort: the CommandView II Cab.

You'll know you've arrived when you settle back in the seat of your new CommandView II cab. What a view! The serene colours and rugged materials are a perfect match. The controls and displays are easy to see and understand. The overhead air conditioning features cleaner and better performance.

Working in a quiet cab that's this comfortable, efficient and productive is the way you always knew farming could be. Enjoy:

**Wide open spaces.** We added 10% more room, 7% more glass and a lot more power outlets for electronic devices. We even increased the size of the instructor seat and combined it with the FieldOffice surface on its backrest.

**The new air conditioning.** Now it's integrated into the roof and increases air flow by 30% as it decreases operating noise.

**"Sound" technology.** Four high quality speakers and a powerful subwoofer reproduce your favourite music better than ever before. The Premium radio package even has Bluetooth and MP3 function.

**SCV levers and couplers.** The Selection Control Valve and couplers are colour-coded to simplify operations.

**Cab-integrated exterior lighting.** This bright idea turns night into day by providing 360° of deep illumination.



The leather trim package features a leather-wrapped steering wheel, a heated leather operator seat and a leather instructor seat.





The new CommandArm console is a faster, more intelligent way to operate and control a wide range of operations.



ActiveSeat ensures the smoothest ride in the industry.



Ahhh. Thanks to the new air conditioning it's springtime – all year round.



Good taste when it comes to design and convenience: the 1.5 litre beverage holder.



Our multi-purpose radios fit your lifestyle. Options include: control via the CommandArm console plus USB and auxiliary input for MP3 and iPod usage. Bluetooth capability on Premium radio package.



Discover the ultimate in operator comfort, control and visibility: the new CommandView II Cab.

## Take control.

Relax and let your fingertips do the work.

### The new CommandCenter control.

There simply isn't a more effective way to control applications and monitor performance.

### Optional John Deere ActiveSeat.

All John Deere seats are rugged and comfortable but the optional ActiveSeat seat is extraordinary. It insulates you from up to 90% of the 8R Series tractor's vertical movement. Thus increasing comfort and decreasing fatigue.

### More storage than ever before.

Now your operator's manual, first aid kit, warning triangle, personal electronic devices and everything else you need, are stowed within easy reach.

### Plug and play.

Up to 10 power outlets provide a convenient energy supply for mobile phones, laptops, etc. Additional monitor mount locations are ready for a change whenever you are.

### A lot to look forward to.

The slender engine bonnet and wraparound visibility let you keep a close watch on your work whether it's ahead, above, below, to the sides or behind.

Flexibility and control. Comfort and reliability. High productivity and low cost of ownership. 8R Series Premium tractors are an ideal choice for farmers and contractors with a world of things to do.

## All systems go: the new CommandArm console.

Heading across the fields in an 8R Series tractor is much like going for a drive in the country. There's an unprecedented level of in-cab comfort and functionality. Having everything within easy reach is a convenient way to maximise productivity.

But it's the new right-hand **CommandArm console** with integrated **CommandCenter control** that makes using 8R/8RT Series tractors hassle-free. Controls, such as the CAN-regulated, colour-coded SCVs are user friendly. Displays are read at a glance. And the exclusive **intelligent Total Equipment Control (iTEC)** system lets you automate multiple operating functions simultaneously.



### The new CommandArm Console

Enjoy fingertip control of tractor and cab functions such as hydraulics, throttle, gear selection, rear hitch, air conditioning and radio controls.



## Tractor control: made easy.

Your Corner Post Display, CommandCenter control and CommandArm Console controls with **ISO compatibility** keep operations simple. All you do is focus on the task at hand. No more looking to the right hand console to make adjustments! All controls are forward facing reducing fatigue and improving tractor operation.



**4 in 1 – The GreenStar 2600 Display** brings you four features in only one display: you have full control of all your guidance applications, its ISOBUS conformed and comes pre-loaded with field documentation to boost productivity. It can also act as a tractor performance monitor.

### New Corner Post Display:

The new design, featuring an illuminated, easy to read colour screen, provides all relevant tractor information at a glance.



The redesigned, illuminated **Corner Post Display** puts critical performance data within easy view.

### New CommandCenter control:

Controls grouped by functional areas:

- Completely integrated 7" full-colour wide screen
- USB for transferring data
- On-board Diagnostics Tool
- ISO virtual terminal



The all-new **CommandCenter control** is integrated with the CommandArm console and features an ISOBUS virtual terminal.

### New CommandArm Console:

- Hot keys for field CruiseControl, iTEC system, transmission and PTO settings
- Hot keys to all hitch functions
- Air conditioning controls
- Radio controls
- MFWD controls
- Light controls



The new **CommandArm Console** provides effortless fingertip control.

## Groundbreaking technology: the 9.0 L PowerTech Plus engine.

The incredible performance and torque output of the 9.0 L PowerTech Plus engine unleashes up to 345 hp @ rated speed with an 8345R (and up to 380 hp with Intelligent Power Management). Yet this renowned engine also leads the way in fuel efficiency. So operating costs stay exceptionally low.

### The secrets of success:

- Four-valve cylinders allow the 9.0 L Power Tech Plus engine to operate more efficiently for maximum performance.
- Variable Geometry Turbocharger (VGT) and High Pressure CommonRail (HP-CR) fuel system ensure instant response to varying load conditions while improving low-speed torque.
- Exhaust Gas Recirculation (EGR) reduces emissions as it increases fuel efficiency.
- The high capacity VariCool cooling system and air-to-air intercooling improve engine performance.
- Self-bleeding electronic fuel pump helps to minimise downtime.

## Record-setting fuel economy!

The 9.0 L PowerTech Plus engine sets the standard. It is the most fuel efficient row-crop tractor engine ever to be tested in an 8430 model\* at the Nebraska Tractor Test Laboratory.

\*OECD / Nebraska Test Report 1873



Despite incredible performance and torque, fuel consumption remains low!

### Roaring with efficiency:

- Outstanding fuel economy
- High horsepower  
10% ExtraPower
- High torque rise – 43%
- Reduced emissions



## The VariCool cooling system.

The field-proven VariCool cooling system increases operating efficiency. It automatically adjusts fan speeds as needed to maintain an optimum operating temperature and it helps the engine respond more quickly to load changes. So you get a bigger surge of power when you need it most (e.g. during heavy draft applications or PTO operations).



Powerful 8R Series tractors are perfect for all of your requirements – on and off the road.

The **Variable Geometry Turbo-charger (VGT)** ensures excellent low speed torque, improved engine response and enhanced fuel economy. The 767 mm fan automatically adjusts its speed to increase air flow and engine life.



The **large radiator** improves engine cooling capacity and folds out for fast and easy service or cleaning.

## Leading efficiency: the AutoPowr transmission.

There simply isn't a better tractor drivetrain for the 8R or 8RT Series tractors than AutoPowr transmission. It permits a 50 km/h transportation speed on the 8R at a fuel saving 1700 rpm. Or 40 km/h at a low 1200 rpm! And because AutoPowr transmission provides greater pulling power at lower speeds, it enables operators to work more hectares per hour.

### **More versatility. More comfort. More automation.**

Why? All you do is choose the AutoPowr transmission setting that provides the maximum fuel efficiency for each application:

- Setting 1 for PTO and hydraulic applications.
- Setting 2 for heavy draft applications.
- Setting 3 for transport and light draft applications.

### **An industry first!**

The good news is that the AutoPowr transmission is standard on the 8345R and optionally available on all other 8R Series tractors. But the best news for tracked tractor fans is that you can now benefit from the AutoPowr transmission on the 8RT Series tractors! Either as standard on the 8345RT or as an option on the other models.

### **AutoPowr transmission benefits:**

- Better fuel economy
- Unlimited range of speeds
- Easy to operate
- Transport up to 50 km/h (40 km/h for 8RT)



The left-hand reverser lets you instantly change direction without readjusting your speed (available on wheeled models only). Or you decide on the optional right-hand reverser to change direction more comfortably.



Having AutoPowr transmission settings displayed on the CommandCenter control terminal makes it easy to keep an eye on performance.

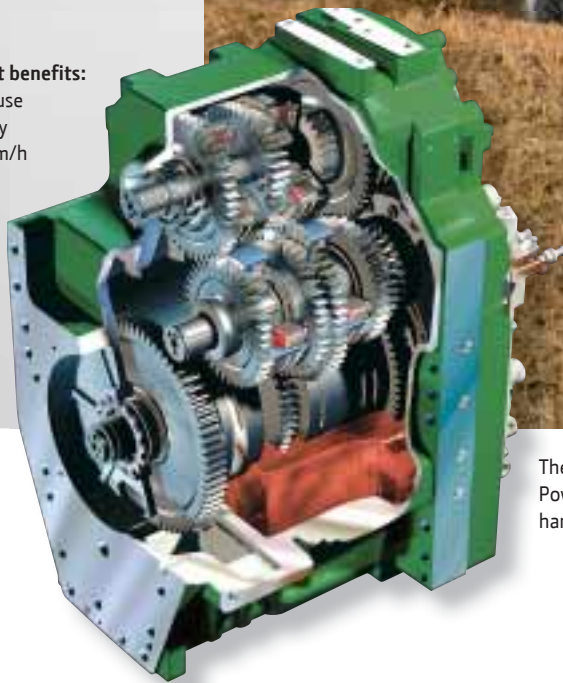


## Low operating cost. High productivity.

The John Deere Automatic PowerShift Transmission (with 16 forward and 5 reverse speeds) delivers field-proven performance you can count on. It improves fuel efficiency and productivity by automatically shifting to match changing conditions and it's quiet and smooth.

### Automatic PowerShift benefits:

- Reliable and easy to use
- Improved shift quality
- Transport up to 42 km/h



The responsive Automatic PowerShift transmission easily handles sudden peak loads.



Operating the automatic PowerShift transmission is as easy as moving your thumb.



Automatic PowerShift will automatically shift down to match changing conditions. Also during a headland turn, the transmission will shift down on its own while reducing the engine rpm.

## A brighter idea: 360° lighting.

Farming is a 24-hour-a-day business. Ploughing, cultivating, even harvesting can require extended night shifts. Fortunately, 8R/8RT tractors outshine with a lighting system that means better control and higher productivity for your operators.

### **You've never seen anything like it!**

- Up to 12 lights – integrated into the front, rear and sides of the roofline to prevent possible damage – provide 360° visibility.
- Four adjustable beltline and rear fender field lights increase flexibility.
- Seven field, spot and road lights on the bonnet grille guide you from dusk till dawn.

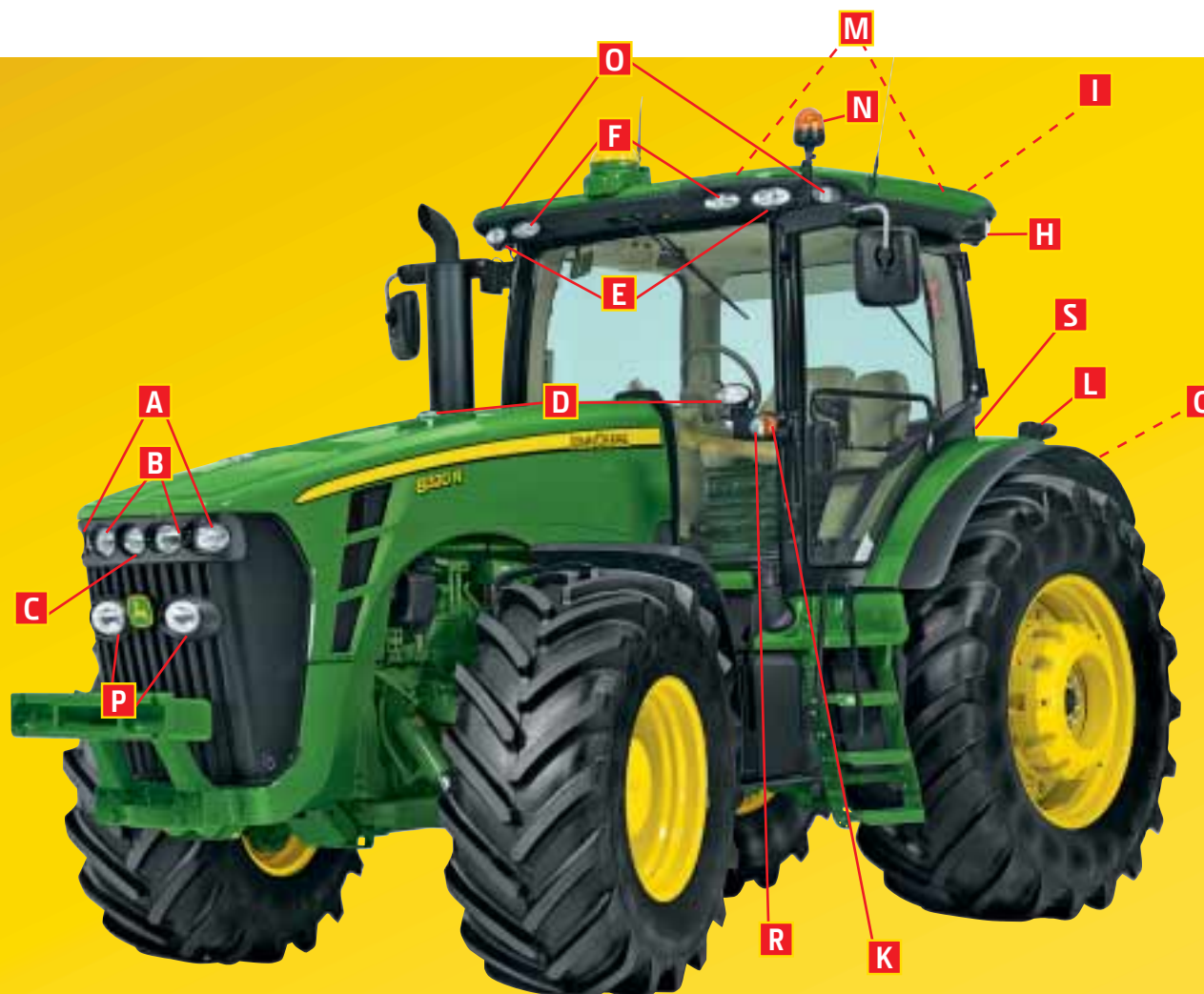
And, for your convenience, all of the equipment is controlled via the CommandCenter.





## See the light.

The 5 Xenon lights which comprise the Premium HID Lighting Packages deliver up to 5 times the service life of halogen bulbs and 2.5 times the luminance. This brightness and daylight colour output ensure excellent field definition.



Programming your CommandCenter control to provide lighting that's perfect for night time applications couldn't be easier.



Lighting configurations on the 8R and 8RT Series tractors turn night into day.

- A** Field Lights, Front Outer, High Beam
- B** Field Lights, Front Inner, High Beam
- C** Centre Spot Light
- D** Field Lights, Cab Beltline
- E** Field Lights, Cab Roof Front Corner
- F** Field Lights, Cab Roof Front Inner

- G** Field Lights, Fender Rear
- H** Field Lights, Cab Roof Rear Side
- I** Field Lights, Cab Roof Rear Corner
- K** Amber Hazard/Turn Lights, Front/Rear Roof
- L** Extremity Hazard/Turn Lights Rear
- M** Field Lights, Cab Roof Rear Inner

- N** Beacon Lamp
- O** Field Lights, Cab Roof Front Side
- P** Road Lights, High/Low Beam
- R** Clearance Lights
- S** License Plate Lamp

## AutoTrac + iTEC = iTEC Pro.

### Only John Deere offers the productivity of the iTEC Pro system.

John Deere's intelligent total equipment control Pro technology (iTEC Pro system) enables tractor operators to work faster and longer without tiring. As a result, owners benefit from comprehensive, fully automated operations for consistent quality of work, improved performance and the highest operator comfort.

### You're in control.

The amount of work, time and costs you save is up to you:

- 1) Choose AutoTrac's hands-free guidance to reduce overlap with each and every pass by up to 90%.
- 2) Choose the tractor integrated **iTEC's** intelligent equipment control to automate all machinery steps that are needed to accurately complete headland manoeuvres. iTEC is an integrated part of the 8R Series tractors. It's easily programmed via the CommandCenter display.
- 3) For full automation of your entire field and headland application combine the capabilities of the **AutoTrac** and **iTEC** systems to create **iTEC Pro** system. You'll minimise overlap, cut input costs and work faster. With the GreenStar 2600 Display you stay in control of all iTEC Pro operations.

### More hectares in less time.

Now you can increase your productivity. All you have to do is decide how accurate a correction signal you want to use with your StarFire iTC receiver to implement:

- ± 30 cm pass to pass accuracy with the FREE SF1 signal, perfect for tillage.
- ± 10 cm pass to pass accuracy with the SF 2 signal, ideal for seeding and spraying.
- ± 2 cm repeatable RTK signal accuracy for the highest precision demands.







**AutoTrac system reduces overlap.**  
Hands-free GPS-assisted steering reduces implement overlap by as much as 90%. You save time, fuel and labour costs.



**Give yourself a break: iTEC system.**  
This intelligent total equipment control system simultaneously performs the many tractor functions you need to automate productivity.



A glance at the iTEC system screen is all it takes to see the advantages of "intelligent Total Equipment Control".



## Don't keep your future waiting.

Naturally, there is more to advanced farming than accuracy and automation alone. So we also offer a wide range of solutions that enable you to boost the quality and efficiency of your operation. Three examples include:

**FieldDoc system.** Automatically records all your in field applications on your GreenStar 2600 Display. From tillage to seeding, spraying and fertiliser spreading: now you can document precisely what was done, where, when and by whom.

**JDLink telematics.** Attention fleet managers. JDLink telematics gives you the remote control you need to work more efficiently and profitably. Know about machine location and use, due maintenance and fuel consumption.

**iGuide system.** In uneven terrain the weight of your pull-type implement will cause it to drift. The result is gaps and overlaps. With the iGuide system, the tractor now changes its path to compensate for implement drift in uneven terrain and slopes and guides the implement to a perfect pass-to-pass result!

## 8R/8RT Series hydraulics: more power, more speed, more comfort.

Fewer hydraulic parts, fewer hydraulic connections and shorter hydraulic lines improve reliability.

But the heart of the system – which has been upgraded for the new 8RT Series tractor – is a standard 63 ccm hydraulic pump that easily delivers 166.5 litres/min or our optional 85 ccm pump that provides an incredible 227.0 litres/min. The resulting 200 bar maximum system pressure allows operators to benefit from amazing implement performance and enhanced steering response. Even when working at low engine speeds.

### **Flexible and versatile.**

As you can see the 8R/8RT Tractor Series is far more than just a workhorse for heavy duty applications. It's also ideally suited for unloading large trailers.







The CommandCenter control keeps you in control of the hydraulic systems that control your tractor.



Respond instantly to implement requirements. With the CAN controlled CommandArm console and colour-coded Selective Control Valves it's easy.

## Performance to go.

New CommandCenter controls allow you to manage the colour-coded SCVs on-the-go. This is a convenient solution for operating hitches and light draft applications such as air seeders, e.g. a 12 metre seeder with hydraulic actuator.

The large digital display lets you monitor flow rates and times. And – speaking of time – our two high capacity hydraulic filters only need to be replaced every 1500 hours!



## Give productivity a lift with John Deere hitches.

As equipment sizes and tractor horsepower have grown, so have our hitch and drawbar options. They make it easy to choose the solutions that are best suited for your individual applications.

### Three-point hitch.

Naturally, John Deere has the drawbar and ball, pick-up, piton and wagon hitches you want. But our three-point hitches (with up to 11.7 tons of lift capacity and up to 12.7 at 8320RT/8345RT) are the options of choice for many heavy, fully mounted implement tasks.

### Comprehensive solutions:

- Electronic hitch sensing for varying load conditions
- Hitch dampening for improving ride stability
- Sway blocks and sway stabilisers for peace of mind
- iTEC system technology for total implement management
- Convenient CommandCenter control for: three-point hitch set-up, depth, height, rate of drop, slip and dampening

### Front hitch.

8R Series tractor models are also available with a fully integrated front hitch. It has a lift capacity of up to 5,200 kg and ensures a large 750 mm lift travel.







The improved weight distribution of the 8R/8RT Series tractors and high capacity rear hitches make it possible to lift the heaviest 3-point mounted implements.



The front hitch is perfect for carrying ballast, for transporting seeding hoppers and plough packers, for operating draft implements and much more.



Control your ISOBUS-compatible implements like lifting and lowering the pick-up easily and comfortably with the CommandCenter console.



**PTO engagements** are ideal for applications such as power harrowing and baling. They ensure uniform starts and stops, while protecting implements from high torque overload.

## Built-in versatility: the Power Take-Off.

We do all we can to help you do more. That's why, for example, our 8R/8RT Series tractors are ISOBUS ready. This plug-and-play technology enhances performance. It prepares you for future developments. And, because you only need one display to control your ISO-compatible implements, it saves money too.

Think of the 8R/8RT Series tractors as self-contained power plants for operating power harrows, wood choppers, large grain trailers, rotary cutters, balers – you name it!

An independent 1000 rpm PTO is standard on all 8R/8RT Series Tractors. Rely on the 45 mm 20-spline shaft to handle heavy loads requiring lots of power.

Or choose from two options:

- 35 mm 6 spline (540 rpm)
- 35 mm 21 spline (1000 rpm)

Push-button PTO controls are conveniently located on the CommandArm console. Together with the AutoPowr transmission, you'll maintain consistent PTO performance. Even when ground speeds are very slow or loads vary.

## Take the load off your mind.

John Deere 9.0 L PowerTech Plus engines and advanced transmissions make it easy to transport heavy loads whilst using less fuel. The Independent Link Suspension (ILS) for 8R Series tractors with mechanical front-wheel drive (MFWD) allows you to put more power to the ground. It's also ideal for enhancing ride comfort.

So choose the hitch option that's right for your trailer or implement. Adjust the AutoPowr transmission to position 3 and safely haul loads up to 50 km/h in the new 8R Series tractors.

### **Prefer the flotation of the 8RT?**

Then you've come to the right place. Sit back and relax atop the new, air-cushion suspension. It enhances operations, it reduces equipment wear and tear and it enables a road cruising speed of 40 km/h!





## A moving experience.

Intelligent Power Management on the 8R/8RT Series tractors is a unique feature which provides up to 40 additional horsepower for transport and non-stationary PTO applications. The results: greater performance and acceleration when you need it most (e.g. traveling uphill with a heavy load). And, because you maintain the speed you choose at the best-possible rpm level, refuelling stops are fewer and further between.

You'll also enjoy the reversing ease and touch-finger control that John Deere's new CommandArm console can provide.



The independent link suspension (ILS) on the 8R Series tractor helps to provide maximum traction and optimum ride comfort.



The AutoPowr transmission is controlled by a single shift lever conveniently positioned on the new CommandArm console.



The seat in the "Seat of Power" ensures exceptional comfort – all day long. (ActiveSeat available only for wheeled models)



## Inflate performance – with the proper tyres and pressure.

John Deere 8R Series Tractors offer many useful features. But to get the highest performance from each you must have the proper ballast, tyres and tyre inflation pressures. Optimise these factors to:

- Put more power to the ground
- Improve fuel economy
- Increase traction
- Limit soil compaction
- Enhance crop yields
- Maximise ride comfort
- Minimise power hop and road lope

### Three things to remember about tyres:

1. Inflate a radial tyre to the correct pressure and it will provide a long “footprint” on the soil: the single most important factor in determining traction and efficiency.
2. Use the largest tyres permitted at the lowest inflation pressures allowed.
3. Demand quality. Your John Deere dealer has a wide selection of front and rear tyres that are ideally suited for your new 8R Series tractors.

## Be prepared:



Choose tyres that best suit the application (e.g. transporting, seeding and cultivating, major dual-wheel operations, in-furrow ploughing).



Long footprints and large contact areas increase traction and efficiency. Flexible tyres and low inflation pressures minimise soil compaction and maximise traction. Always use your Operator's Manual to adjust inflation pressures.



Clamp-on dual wheels improve flotation and reduce soil compaction in light duty applications such as seeding.



The heavy duty dual wheels are available for heavy and medium draft applications\*.



\*Not for UK & Ireland.





The 8R Series tractor is suited for 900 kg, 1150 kg monster weights and for the 50 kg suitcase weights for quick ballast changes.



Removable rear wheel weights are available in 75, 205 and 645 kg sizes to help you better manage tractor ballast.



Choose the correct ballast: light for PTO and transport, heavier for optimum in-field performance.

## Give productivity more weight.

Correct ballasting maximises performance in the field. Too little weight applied to the tyres will result in slippage. And, if tractor power increases, tractor ballast should increase as well. Simply put: you must have the correct weight on your front and rear axles.

### Words to the wise:

- A tractor correctly ballasted for a given type of implement has the correct total weight distribution.
- Where you apply ballast depends on the type of implement being used and the field travel speed.
- Liquid ballast should only be used in tyres when other ballast options are not available.

See your John Deere dealer for the advice and weights you need to optimise your tractor's performance.

## Introducing the new 8RT.

### New comfort, traction and productivity.

Another John Deere “power”, is the power of choice. That’s why we also offer the amazing flotation and ground-gripping traction of the new 8RT Series tractors. As a result, you can go to work earlier and stay longer in fields that would be too damp for wheeled tractors.

There’s never been a tracked tractor like the 8RT! We’ve improved the performance, the cab, the suspension, the hydraulics, the ballast scheme, the track tensioning and the surface grip. So now the 8RT Series provides:

- The unmatched comfort of the enhanced CommandView II cab with CommandArm controls.
- A smoother and faster ride (up to 40 km/h on the road!) thanks to a single air cushion suspension system often featured on the best-built lorries.
- The longest wheelbase with 2515 mm in the industry for more traction, better pulling ability, greater efficiency and a smoother ride.
- Exceptionally rugged engineering thanks to a walking beam with centre pivot levelling system, increased friction drive capabilities, a new inline tension arm and an improved alignment mechanism that virtually eliminates belt derailing.
- Two different drive-wheels and mid-rollers for each belt option to ensure less compaction, more traction\*.
- The front idler with 950 mm diameter as used on the 9030 Series track for reduced track wear and the ballasting benefits of the 8R Series.
- A standard 63 cm<sup>3</sup> hydraulic pump and an optional 85 cm<sup>3</sup> hydraulic pump.
- A new inboard planetary with an axle housing inspired by the 8R Series.
- A new IPM capability that provides up to 35 more horsepower during PTO and transport applications.



\*Wide drive wheel and mid-roller standard for UK and Ireland.





The 254 mm longer wheelbase also adds a new dimension in performance, stability and comfort and at 2515 mm is the longest in the industry.



No matter how extreme the working conditions, one of our Camoplast (DURABILT 3500 & 5500) track belts will provide the contact patch that is best suited for the job. The belts are available in the sizes: 400, 450, 600, 625 or 760 mm.



Perfect ballast, the 9.0 L PowerTech Plus engine and the AutoPowr transmission make it easy to "track" down the road at 40 km/h.



Choose your preferred working mode. The AutoPowr transmission maximises performance whilst minimising fuel consumption.



A new levelling system, a unique air-cushion and a highly responsive position sensor ensure outstanding comfort and versatility.

## Now available with AutoPowr transmission!

You'll have to go far afield to find another tracked tractor that comes close to the performance and flexibility of the 8RT Series tractors. This is clearly demonstrated by its choice of transmissions – each of which is perfectly suited for your farming business.

The automatic and field-proven 16-Speed PowerShift transmission saves fuel under varying load conditions. And only the 8RT Series tractor offers AutoPowr transmission: the incredible Infinitely Variable Transmission (IVT) with right-hand reverser.

### AutoPowr advantages include:

- Consistent performance at reduced engine speeds for improved fuel economy.
- An unlimited range of operating speeds between 0.05 to 40 km/h.
- Smooth, seamless speed changes.
- Stopping without declutching and reliable parking regardless of load or incline.

## Service with a smile: your own!

The 8R Series provides instant access to all critical functions and parts for fast and easy daily service.

- Service points are reached from ground level.
- Sight glasses are built into most fluid cases.
- Fluid fill ports and grease points are within easy reach.

The engine air, the cab fresh air and the recirculation filters are inspected and changed without tools. Maintenance-free bushings, bearings and drive shafts are incorporated wherever possible.

### **Save costs. Save effort.**

Your John Deere dealer will keep your 8R Series tractor running in top condition. He provides Service ADVISOR diagnostics for fast and reliable inspections. He uses only the best quality: John Deere parts. And he works with experts you can trust: John Deere trained service technicians.

### **Operator and owner friendly:**

- Easy maintenance and access
- Extended oil service intervals
- High reliability and low costs
- High quality of JD original parts



Changing the cab filter is easy





## John Deere lubricants: Liquid high tech.

Our lubricants ensure optimum performance plus long lasting protection. And they're developed by the company that knows your equipment best: John Deere.

## John Deere attachments: do more work with less effort.

You spend a lot of time in your tractor. So naturally, you want it to be equipped for maximum comfort and productivity. For a comprehensive attachments' brochure see your John Deere dealer.



Our wide range of accessories – such as an adaptor for your GPS receiver or a convenient monitor holder – help you to see more, feel better, stay safer and make short work of a long day.

- [ 1 ] 1150 kg Monster Weight
- [ 2 ] Insulated Coolbox
- [ 3 ] Plug
- [ 4 ] Monitor mounting bracket

## Something special.

John Deere collection can be purchased online or at your local dealership. Sample items include:



- [ 5 ] Contrast Cap MCJ099357000
- [ 6 ] T-Shirt "Basic" size S MC0590002240  
– M 2241 – L 2242 – XL 2243 – XXL 2244
- [ 7 ] Challenger Overall size XS MCS103932082  
S 2083 – M 2084 – L 2085 – XL 2086 – XXL 2087 – XXXL 2088
- [ 8 ] Radio-Controlled John Deere 8430T Tracked Tractor  
EU adaptor MCU676200000  
UK adaptor MCU676300000

	8245R	8270R	8295R	8320R	8345R	8295RT	8320RT	8345RT
ENGINE PERFORMANCE								
Rated Power (97/68 EC) without IPM, kW (hp)	180 (245)	199 (270)	217 (295)	235 (320)	254 (345)	217 (295)	235 (320)	254 (345)
Maximum Power (97/68 EC) @1900 engine rpm without IPM, kW (hp)	197 (268)	214 (291)	237 (322)	256 (347)	278 (378)	237 (322)	256 (347)	278 (378)
Rated Power (97/68 EC) with IPM, kW (hp)	206 (280)	224 (305)	243 (330)	261 (355)	280 (380)	243 (330)	261 (355)	280 (380)
Maximum Power (97/68 EC) @ 1900 engine rpm with IPM, kW (hp)	210 (285)	229 (312)	249 (339)	269 (366)	288 (392)	249 (339)	269 (366)	288 (392)
Maximum Torque @ 1500 engine rpm in Nm	1085	1199	1310	1419	1515	1310	1419	1515
ENGINE SPECIFICATIONS								
Rated Speed, rpm	2100							
Type	PowerTech Plus, 6-cylinder, 4 valve, Stage III A Emissions Certified							
Aspiration	Variable Geometry Turbocharger, intercooled and air to air aftercooled							
Displacement, bore and stroke	9.0 liter, 118.4 mm x 136 mm							
Cooling Fan Drive	VariCool - variable speed cooling fan drive system							
Fuel Injection System & Control	High Pressure CommonRail with full elec. injection management, elec. single injector control							
Fuel Tank Capacity in liters	681	681	681	681	681	758	758	758
TRANSMISSION OPTIONS								
AutoPowr	Infinitely variable transmission with full electronic engine and transmission management AutoClutch, PowerZero, variable reverser ratio and FieldCruise							
Speed range	Infinite – 50 m/h to 42 km/h or 50 km/h					Infinite – 50 m/h to 40 km/h		
Modes	4 modes - manual, PTO, heavy draft load control & light draft/transport economy							
Automatic PowerShift	16F/5R full PowerShift speeds w/ fully autom. shifting & FieldCruise control				–	16F/5R full PowerShift speeds w/ fully		–
Speed range	8 field working speeds. 2 – 42 km/h forwards, 1.8 – 16 km/h reverse				–	8 field working speeds. 2 – 42 km/h forwards, 1.8 – 16 km/h reverse		–
Automatic shifting	Shifting in relation to throttle position & load for transport & field applications				–	Shifting in relation to throttle position & load for transport & field applications		–
REAR-PTO								
PTO Clutch	Independent oil cooled multiple disc							
PTO engagement	Electro-Hydraulically engaged and braked. External fender mounted control switches							
Types	1000 rpm, 20 spline 45 mm shaft or 2-speed, dry change 1000 rpm and 540 rpm with 45 and 35 mm shafts					1000 rpm, 20 spline 45 mm		
Engine speed at standard PTO speeds	1000 @ 2000, 540 @ 1820 rpm					1000 @ 2000 rpm		
HYDRAULIC SYSTEM								
Type	PFC System (pressure & flow compensating) load sensing with dedicated axial piston type pump							
Maximum Flow liters/min	167 or optional 227							
Maximum SCV's	5							
Electro-hydraulic selective control valves	Neutral, raise, lower and float. Adjustable flow with temperature compensation. Selectable detents. Load check valves and release assistors.							
3-POINT HITCH – Rear								
Categories	Cat 3N/3 with hook type draft link ends or optional Cat 4N/3 with hook type draft link ends			Cat 4N/3 w/ hook type draft link ends		Category 3N/3 or opt. Category 4N/3	Category 3N/3 or opt. Category 4N/3	Category 4N/3 w/hook type draft link ends
Type	Electro-hydraulic with full electronic lower link draft sensing. Hitch dampening. External fender mounted control switches"							
Maximum lift capacity at hooks, kg (kN)	10.788 (105.8)	10.788 (105.8)	10.788 (105.8)	11.762 (115.3)	11.762 (115.3)	12.700 (124.54)	12.700 (124.54)	12.610 (123.66)
OECD lift capacity at 610 mm, kg (kN)	7.665 (75.16)	7.665 (75.16)	7.665 (75.16)	8.436 (82.72)	8.436 (82.72)	8.436 (82.72)	8.436 (82.72)	8.754 (85.84)





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