

# 7R TRACTORS

210-350 Engine Horsepower



JOHN DEERE







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# MOVING *FORWARD*

Multi-functional, the 7 Series Tractors take a leap forward with precision ag offerings like the G5<sup>Plus</sup> display, the StarFire™ 7500 integrated receiver, and more. The eight models of 7R Tractors range from 210 to 350 hp and are equipped with a refined cab plus integrated technology and high power density. The adjustable cab suspension allows you to control your ride quality by adjusting the firmness of your cab ride to achieve your desired comfort level. With a base weight of 24,700lbs., the 7R 350 delivers 350 rated engine horsepower and 385 max engine horsepower.

Fight fatigue on long days with Triple Link Suspension (TLS™), choose from three cab visibility packages, enjoy hands-free turns with AutoTrac™ Turn Automation, and experience enhanced steering ease with ActiveCommand Steering (ACS™) or Reactive Steering.

These are the large horsepower, maneuverable tractors that can accomplish any task in the field, barnyard, or on the road.





# 7R TRACTORS OVERVIEW

## **Large Cab**

Select from three packages so your cab works the way you work. Features include an ergonomic seat, G5<sup>Plus</sup> display and more.

## **Adjustable Cab Suspension**

Enjoy a smoother, firmer ride with adjustable cab suspension. You control your in-cab experience and can adjust the cab suspension to improve ride quality and comfort level.

## **LED Lighting**

Make the most of your time, no matter the time, when you choose from three **Visibility Packages**. And with two times the LED light output compared to halogen bulbs, you can focus on the task at hand, not the amount of sunlight left.

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

Delivering excellence 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 ft (50m) per hour.

## **e23™ PowerShift Transmission**

Meet the demands of whatever conditions are thrown your way with three operating modes: Full AUTO, Custom, and Manual.







## Integrated Intelligence:

### ■ G5<sup>Plus</sup> display

The brighter, crisper displays and added processing power of the G5<sup>Plus</sup> make applications you already use run even better. Like AutoTrac™ Turn Automation, which lets you execute end rows easily and have a stress-free day in the cab. AutoPath™ puts your secondary pass guidance lines where you want them, so you don't have to count rows or harvest a row of shame. With the new G5<sup>Plus</sup> display, you'll get 35% more screen space to add additional maps and widgets, 3x faster processing for quicker boot times and clear 1080p HD resolution. It's all easier with the G5<sup>Plus</sup>.\*

### ■ Integrated StarFire™ 7500 Receiver

Get improved performance and dependability and reduce the time to achieve full signal accuracy with the integrated receiver.\*

### ■ JDLink™\*\*

JDLink connection is free and lets you see where your machines are, what they're doing and how they're performing. Simply turn on JDLink service in your Operations Center account.

### ■ AutoTrac™

Enjoy hands-free turns and reduced overlap, all while maximizing inputs and reducing fatigue.

### ■ Documentation & Data Sync

You'll get better data to make your decisions with Documentation and Data Sync standard in 7R tractors.

### ■ Rear Implement Ethernet


Be prepared to enable high speed data flow between the tractor and implement, once implement ethernet becomes available on planters and other implements. This will allow you to see more of your implement data faster than ever before.

*\*Compared to previous Gen4 display.*

*\*\*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.*



# RIDE IN COMFORT



Take a seat in John Deere's most comfortable chair. View displays easier when running applications with the bigger, clearer and faster G5<sup>Plus</sup> display and extended monitor.\* And get ready to log 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. Get all these features in the Ultimate Comfort & Convenience package.

\*Compared to previous models.





## ***SIGNATURE EDITION***



Upgrade to the top of the line with the Signature Edition. The John Deere Signature Edition 7R Tractor includes the Ultimate Comfort and Convenience package, the Ultimate Visibility package, G5<sup>Plus</sup> CommandCenter™, G5 Advanced licenses and Active Seat™ II or air seat plus cab suspension.

Ultimate Comfort and Convenience package shown.

# OWN THE DAY

When the hours are long and the terrain is tough, there's no better place to be than our cab. Your home away from home. Easily step through the wide doorway into our spacious cab. Enjoy more space than our previous cab, complete with extra headroom, extra storage capacity, and extra USB ports. Enjoy a cooler cab and better visibility to operator screens with rear window tint on the CommandView™ 4 cab glass. Choose from these options; amenities vary by package. Discover more details at [JohnDeere.com/7R](http://JohnDeere.com/7R) or [JohnDeere.ca/7R](http://JohnDeere.ca/7R).

## SELECT

- Cloth seat with manual controls and manual 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









# OWN THE NIGHT

Take charge of your night when the daytime hours aren't enough. Our three Visibility Packages are a bold leap forward, shedding new light on nighttime productivity. With the Ultimate Visibility Package, you'll experience two times more lighting than halogen bulbs thanks to the LED work lights. LEDs provide brighter, 360-degree illumination for those work days that turn into work nights. 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>



Ultimate Visibility package shown.







# ENJOY THE VIEW

The view is amazing from any angle. Look at implements behind you with ease. Pneumatic lumbar support and electronic controls let you make adjustments with ease.









# SEE MORE KNOW MORE DO MORE

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

Bigger. Faster. Clearer.

The G5<sup>Plus</sup> CommandCenter Display gives you a big picture of your 7R's performance and work in the field.

- 12.8-inch touchscreen – 35% larger<sup>1</sup>
- 3x faster processor...for quicker boot times<sup>1</sup>
- High resolution 1080p screen for clear views

The G5<sup>Plus</sup> CommandCenter comes with permanent AutoTrac™ and Section Control licenses. Or, for even more automation, choose the Optional G5 Advanced Package. More than a display, the G5<sup>Plus</sup> is your path to the future of precision ag.

## John Deere Operations Center™

**Unlock the full power of your farm data with Operations Center.**

It's a free, online farm management system that empowers 24/7 access to your farm data through web, tablet, or mobile phone. With Operations Center, you can seamlessly connect data from your fields, machines, and operators. It puts at your fingertips all the information you need to maximize critical operations, from tillage, planting, and seeding to applying and harvesting.



- Plan work to reduce errors and gain efficiencies
- Monitor machine and job productivity in near real time
- Analyze this season's results to improve next season's crops

<sup>1</sup> Compared to previous models







## G5 Advanced Package

More automation means more productivity and less stress. That's what you get with the G5 Advanced Package, which bundles five of our most advanced guidance and automation technologies into a single 1- or 3-year license. That gives you not only a lower up-front cost, but also technology that gets better over time, as you'll get automatic access to new features as they are released. The G5 Advanced Package includes:

### **AutoPath™**

Forget guessing which guidance line to use, even in complex fields. No more counting rows or harvesting that row of shame.

### **AutoTrac™ Turn Automation**

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

### **AutoTrac™ Implement Guidance**

Precisely place seed, chemical, and fertilizer no matter the terrain with AutoTrac Implement Guidance and optional SF-RTK.

### **Machine Sync**

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

### **In-Field Data Sharing**

Between multiple machines and fields, share guidance lines, coverage maps, as-applied pass-to-pass data, and field totals, without wasteful radio chatter.



7R TRACTORS POWER AND EFFICIENCY

# ***SHIFT INTO HIGH GEAR***







The **John Deere PowerTech™ PVS 6.8L** engine found in the 7R 210 features a single variable geometry turbocharger (VGT) that provides the torque rise and engine responsiveness to meet varying load conditions. Overall benefits of the PowerTech PVS 6.8L engine include great fuel economy and peak torque with quick response under load.

Featured in the 7R 230, 7R 250 and 7R 270, the **John Deere PowerTech PSS 6.8L** engine utilizes twin series turbochargers, one fixed and one VGT, that help maintain engine performance and provide a controlled pressure boost for added fuel economy.

The higher horsepower 7R 290, 7R 310, 7R 330 and 7R 350 include the **John Deere PowerTech PVS 9.0L** engine. With a single variable geometry turbocharger, this engine maximizes uptime while setting a new standard for the productivity, efficiency and performance you need.

**Power of choice in transmissions.** Choose from e23™ PowerShift with Efficiency Manager™ with 23 forward gears evenly spaced 15% apart to fit your different operating conditions and implements. Or the Infinitely Variable Transmission (IVT™) that lets you move smoothly 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 per hour with a single lever. You'll get a more comfortable ride when pulling a Large Square Baler with LSB Ride Control on 7Rs with IVT. This integrated technology learns to anticipate plunger stroke of the baler to improve response and reduces active vibrations.

**CommandPRO™** (IVT only) 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.





7R TRACTORS TRANSPORT

# ***AGILITY AND POWER: THE PERFECT COMBINATION***

Hauling implements for transport is another big advantage of the 7R tractor lineup. With high horsepower, light weight and a compact chassis, the nimble 7R tractor delivers the pulling power you need and the drivability to move quickly and easily. Get an additional boost of up to 30 hp in transport or non-stationary PTO applications with Intelligent Power Management (IPM). The 7R 350 can tow implements up to 78 tons (70.76 metric tons)







### ActiveCommand Steering 2 (ACS™ 2)

Optional ACS2 allows you to customize steering performance in the field or on the road, including steering sensitivity and resistance. You can also toggle variable ratio steering from the CommandCenter™ Display.



### Reactive Steering

Have more confidence when transporting an implement on the road thanks to the optional Reactive Steering. Reactive Steering features a steering wheel with force to return to center like an on-road vehicle, when activated.



# ***THE POWER-DRIVEN SUPPORT YOU NEED***







The 7 Series Tractor allows you to lift heavy implements with its impressive 17,300 lbs. (7847 kg) 3PT lift capacity. The optional front hitch takes care of operations with its front-mounted implements and a fully independent, 45-mm (1-3/4-in.), 1000-rpm PTO is standard equipment and specially designed for high-power, heavy PTO loads. Get added load-bearing strength to handle large capacity and extra wide implements with an optional Category 4 drawbar. A category 4 hitch is also available with top hp models, including 7R 310, 7R 330, 7R 350.

The heavy-duty hydraulic system boasts plenty of reserve capacity to operate large hydraulic motors even at reduced engine speeds. Triple Link Suspension (TLS™) delivers electro-hydraulic automatic engagement and gives you the drawbar pulling power you need in all operating conditions with reduced power hop.



# 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 7R 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 7R 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 7R 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.



A man wearing a black John Deere baseball cap and a blue polo shirt is leaning against the green frame of a tractor. He is looking off to the side with a slight smile. The background shows a field under a cloudy sky.

## JOHN DEERE CONNECTED SUPPORT

Your 7R 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](http://JohnDeere.com/ConnectedSupport) or [JohnDeere.ca/ConnectedSupport](http://JohnDeere.ca/ConnectedSupport).





## ***FIND WHAT YOU NEED AT THE PARTS COUNTER***

Your John Deere dealer makes sure to put the right people behind the parts counter. People who know the ins and outs of your new 7R tractor and have a clear understanding of your unique needs. Knowledgeable and trained, they can guide you to the right part, attachment or service (if needed) to fit your budget. Stop by the one parts counter today.

THE **JOHN DEERE**  
**DIFFERENCE**

- Right Part for Any Budget
- Highly Trained Expert Technicians
- 12 Months Parts & Labor Warranty\*
- Short & Long Term Financing Options\*\*

\* 12 month/unlimited hour warranty on new OEM agricultural parts installed by an authorized John Deere Dealer. 6 month/unlimited hour warranty for all new John Deere agricultural and turf equipment parts installed by non-John Deere Dealers. See John Deere Service Parts Warranty US & Canada and participating dealers for more details.

\*\* Financing on approved John Deere Financial credit only. Contact your Multi-Use Account merchant or dealer for complete details.





### **Power Adapter/Power Strip**

Install a convenient power source to the interior of your 7R tractor cab. Connect displays, monitors and other electronic devices into a 3-pin octagonal power adapter or a retrofit 6-outlet octagonal power strip.

**RE596959:** 3-Pin Octagonal Power Adapter

**RE596958 & BRE10575:** 6-Outlet Octagonal Power Strip & Mounting Rail



### **Category 4 Air Filtration**

As our most advanced filtration system, Category 4 is engineered to reduce exposure and provide greater protection against harmful substances (particulates, aerosols and vapors) while operating your 7R.

**BRE10588:** Cat 4 Upgrade Field Kit



### **LSB Ride Control**

Equip your 7R with Large Square Baler Ride Control, an integrated software system that slightly varies speed to mitigate tractor vibrations when paired with an LSB.

**TR116947:** LSB Ride Control Kit



### **Laforge® EZ Ballast® System**

Tucked underneath the belly of the tractor, EZ Ballast provides 3,748 lbs. (1700 kg) of ballast that is easily loaded and unloaded right from the 7R operator seat. Contact your dealer for details.



### **Mid-Stack Power Beyond**

Add power beyond functionality to the mid-stack hydraulic valve to assist with hooking up large equipment to your 7R tractor – a valuable resource when multiple connections are required.

**BXX10967:** Mid-Stack Power Beyond



### **PTG Central Tire Inflation System**

Due to our partnership with PTG, you can now have the benefit of monitoring and controlling tire pressure right from the comfort of your cab. Not compatible with 7R tractors equipped with a loader. This would be required to install a PTG Central tire inflation system. Contact your dealer for details.

**BXX10967:** Mid-Stack Power Beyond



SPECIFICATIONS 7R TRACTORS

Manufacturers Estimates	7R 210	7R 230	7R 250	7R 270	7R 290	7R 310	7R 330	7R 350
POWER								
Rated PTO power (hp SAE) at rated engine speed (2100 erpm)*†	170 hp (126 kW)	189 hp (140 kW)	205 hp (152 kW)	224 hp (167 kW)	242 hp (180 kW)	260 hp (193 kW)	260 hp (193 kW)	260 hp (193 kW)
Rated engine power PS (hp ISO) at rated engine speed (ECE-R120)*	210 hp (154 kW)	230 hp (169 kW)	250 hp (184 kW)	270 hp (199 kW)	290 hp (213 kW)	310 hp (228 kW)	330 hp (243 kW)	350 hp (257 kW)
Max engine power PS (hp ISO) at 1900 engine rpm (ECE-R120)*	231 hp (170 kW)	253 hp (186 kW)	275 hp (202 kW)	297 hp (218 kW)	319 hp (235 kW)	341 hp (251 kW)	363 hp (267 kW)	385 hp (283 kW)
Intelligent Power Management* (Available) Additional engine horsepower PS (hp ISO) at 2,100 RPM (rated speed)*				30				25
PTO torque rise	40%			38%	40%			
PTO power bulge				10%				
ENGINE								
Manufacturer (EU Stage V)	John Deere PowerTech™ 6.8L				John Deere PowerTech™ 9.0L			
Rated speed					2,100 rpm			
Aspiration (US EPA Final Tier 4)	Single turbocharger, variable geometry turbo	Dual turbochargers, variable geometry turbo with fixed geometry turbo in series			Single turbocharger, variable geometry turbo			
Filter, engine air				Dual stage				
Displacement	415 cu in (6.8L)				549 cu in (9.0L)			
Bore and stroke	4.19 in (106 mm) x 5.00 in (127 mm)				4.66 in (118.4 mm) x 5.35 in (136 mm)			
Compression ratio	17.2:1	16.7:1			16.0:1			
Lubrication	Full-pressure, full-flow filtration with bypass							
Filter, oil	Replaceable cartridge style oil filter							
FUEL SYSTEM								
Filter system	Electronically controlled, high-pressure common rail with electric fuel transfer pump (self priming)							
Filter, primary	Two stage with water separator and service indicator light							
Filter, secondary	10 micron replaceable cartridge w/water indication sensor and drain							
	2 micron spin-on element							
TRANSMISSIONS								
e23 PowerShift 40K, 26 mph (40 km/h)	Standard (42 km/h @ 1680 rpm w/grp 47 tires, 42 km/h @ 1600 rpm w/grp 48 tires, 42 km/h @ 1520 rpm w/grp 49 tires)					Standard 42 km/h @ 1600 rpm w/grp 48 tires, 42 km/h @ 1520 rpm w/grp 49 tires)		NA
e23 PowerShift 50K, 31 mph (50 km/h)	Available (50 km/h @ 2000 rpm w/grp 47 tires, 50 km/h @ 1900 rpm w/grp 48 tires, 50 km/h @ 1800 rpm w/grp 49 tires)					Available 50 km/h @ 1900 rpm w/grp 48 tires, 50 km/h @ 1800 rpm w/grp 49 tires)		NA
John Deere Infinitely Variable Transmission, 26 mph (42 km/h)	Available (42 km/h @ 1440 rpm w/grp 47 tires, 42 km/h @1360 rpm w/grp 48 tires, 42 km/h @ 1290 rpm w/grp 49 tires)					Available (42 km/h @ 1360 rpm w/grp 48 tires, 42 km/h @ 1290 rpm w/grp 49 tires)		
John Deere Infinitely Variable Transmission, 31 mph (50 km/h)	Available (50 km/h @ 1800 rpm w/grp 47 tires, 50 km/h @ 1700 rpm w/grp 48 tires, 50 km/h @ 1620 rpm w/grp 49 tires)					Available (50 km/h @ 1700 rpm w/grp 48 tires, 50 km/h @ 1620 rpm w/grp 49 tires)		
ELECTRICAL SYSTEM								
Alternator/Battery	Two batteries in parallel							
Total cold cranking amps	Standard: 210 amp / 12 volt, Available: 250 amp / 12 volt							
	1850 (2-925 CCA grp 31 batteries)							
REAR AXLE FINAL DRIVES								
Description	Inboard planetary three pinion							
REAR AXLES								
	Rack-and-pinion							
110 x 3010 mm diameter (4.33 x 118.5 in)	Standard							NA
110 x 2550 mm diameter (4.33 x 100.4 in)	Available							NA
110 x 2808 mm diameter (4.33 x 110.5 in)	Available							NA
120 x 2550 mm diameter (4.72 x 100.4 in)						Available		
120 x 3010 mm diameter (4.72 x 118.5 in)	Available							Standard
REAR WHEEL EQUIPMENT								
Description	Group 47/48/49 tires available as singles/duals					Group 48/49 tires available as singles/duals		
FRONT AXLES								
1300 Series MFWD - tread range 60 to 88 in (1524 to 2235 mm)	NA	Standard			NA			
TLS - tread range 60 to 88 in. (1524 to 2235 mm)	Available					Standard		NA
TLS with front brakes, available with 40km/h, standard with 50km/h				Available				Standard
HYDRAULIC SYSTEM								
	Closed-center, pressure/flow compensated							
Selective control valves	Standard: 4, Available: 5							
Main pump, axial piston (displacement)	Standard: 63 cc, Available: 85 cc							
Maximum pressure	2,958 psi (20,400 + or- 300 kPa )							
Rated flow, 63cc pump	43 US gpm (162 lpm)							
Rated flow, 85cc pump	59 US gpm (223 lpm)							
Available flow at a single rear SCV	35 US gpm (132 lpm)							
Available flow at a single front SCV	33 US gpm (126 lpm)							
Take out oil capacity	Standard: 65 L, Available: 85 L (aux reservoir)							
3-POINT HITCH - REAR								
	Electrohydraulic sensing							
Category 3/3N w/ Quick-Coupler	Standard: 15,200 lb (6894 kg)							
Category 3/3N w/ Quick-Coupler	Available: 17,300 lb (7847 kg) [requires 120mm dia axle]							
Category 4N/3 w/Quick-Coupler	NA					Available: 17,300 lb (7847 kg)	Available: 17,300 lb (7847 kg)	Available: 17,300 lb (7847 kg)
Category 4N/3 w/Ball/Hook Ends and Deluxe Stabilizers	NA					Available: 17,300 lb (7847 kg)	Available: 17,300 lb (7847 kg)	Available: 17,300 lb (7847 kg)
REAR POWER TAKE OFF (PTO)								
	Independent							
1-7/8 in, 20-spline, 1,000-rpm	Standard							
1-3/4 in, 20-spline, 1,000-rpm; capable of 1-7/8 in 540/1000 rpm	Available							
1-7/8 in, 20-spline, 1,000-rpm; capable of 1-3/8 in 540/1000/1000E rpm	Available							
1-3/4 in, 20-spline, 1,000-rpm; capable of 1-3/8 in 540/540E/1000 rpm	Available							
PTO Speed @ Engine rpm	(540/1000 PTO rpm @ 1950 engine rpm) (540E/1000E PTO rpm @ 1750 engine rpm)							
3-POINT HITCH - FRONT								
	Category 3N							
Lift capacity through full lift range, with hook style ends (measured 24 in behind hook point, OECD)	6,994 lb (3150 kg) lift capacity (ground engaging requires premium front hitch)							
Lift capacity through full lift range, with hook style ends (measured 0 in behind hook point, OECD)	7,690 lb (3488 kg) lift capacity (ground engaging requires premium front hitch)							
INTEGRATED TECHNOLOGY								
Integrated AutoTrac™	Standard							
Modular Telematics Gateway (MTG)	Available with JDLink™ hardware, activations, and ethernet harnesses (availability dependent upon destination)							
Service Advisor™ Remote	Available with JDLink™ hardware and activations							
CommandCenter™ G5™ Display 8.4 in (213 mm) w/ 4200 processor	Availability dependent upon destination							
CommandCenter™ G5™ Display 10 in (254 mm) w/ 4600 processor	Availability dependent upon destination							
StarFire™ Receiver	Standard							
CAPACITIES								
Fuel tank, e23	122 gal (463 L)							NA
Fuel tank, IVT	135 gal (513 L)							
DEF tank	6.9 gal (26.2 L)							



Manufacturers Estimates	7R 210	7R 230	7R 250	7R 270	7R 290	7R 310	7R 330	7R 350
<b>WHEELBASE</b>								
MFWD / TLS				115.2 in (2925 mm)				
MFWD / TLS axle clearance - 1300 axle, G43 420/85R34 tires				19.5 in (495 mm)				
Turning radius - 380/85R34 group 42 tires @ 60" spacing, 1300			23 ft (7 m)				NA	
Turning radius - 600/70R30 group 43 tires @ 74.1" spacing TLS				22 ft (6.7 m)				
Turning radius - 620/75R30 group 44 tires @ 82" spacing, TLS				28.5 ft (8.7 m)				
See OM for additional configurations								
<b>AVERAGE BASE WEIGHT</b>								
IVT, 85cc pump, 4 SCVs, PTO, CAT4 drawbar, 600/70R30 front tires, 710/70R42 rear tires, TLS, front hitch				25,700 lb (11700 kg)				
IVT, 85cc pump, 6 SCVs, PTO, CAT4 drawbar, 480/70R34 front tires, 480/80R50 rear tires, TLS				24,300 lb (11000 kg)				
e23, 63cc pump, 4 SCVs, PTO, CAT3 drawbar, 18.4R46 rear tires, 420/90R30 rear tires, TLS				22,200 lb (10000 kg)				NA
Max ballast level		145 lbs/SAE PTO HP - see OM for specific ballast instructions				135 lbs/SAE PTO HP - see OM for specific ballast instructions		
Max payload capacity				See OM for details on tractor loading				
<b>CAB</b>								
Cab glass area				70.61 sq ft (6.56 sq m)				
Cab volume				114.42 cu ft (3.24 cu m)				



Specifications and design subject to change without notice. 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.





# 7R

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