

7R Tractors

210-350 Engine Horsepower



JOHN DEERE



MOVING FORWARD

Multi-functional. The 7 Series Tractors precision ag offerings take a leap forward with G5^{Plus} display, StarFire™ integrated receiver, and more. Multi-talented. The 7R Tractors include eight models ranging from 210 to 350 hp that deliver a refined cab, plus integrated intelligence and high power-density. With a base weight of 11,200 kg (11.2 ton.), the 7R 350 delivers 350 rated engine horsepower and 385 max engine horsepower*. That makes it the best power-to-weight ratio of any John Deere large tractor.

Take advantage of three cab and visibility packages, fight fatigue on those long days with Triple Link Suspension (TLS™), AutoTrac™ and enhanced steering ease with ActiveCommand Steering* (ACS™) 2 or Reactive Steering. Plus, enjoy total tractor control at your fingertips with CommandPRO™.

These are the large-hp, manoeuvrable tractors that deliver any task you need to accomplish in the field, yard or on the road.

*Max engine power PS (hp ISO) at max engine power speed (ECE-R120). The engine horsepower and torque information for non-Deere engines are provided by the engine manufacturer and are to be used for comparison purposes only. Actual operating horsepower and torque may be less. Refer to the engine manufacturer's website for additional information.



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7R TRACTORS OVERVIEW

Large Cab

Select from three packages so your cab works the way you work. Features include an ergonomic seat, G5^{Plus} display and more.

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

e23 PowerShift Transmission

Meet the demands of whatever conditions are thrown your way — and save on fuel costs — with three operating modes: FullAuto, Custom, and Manual.



Integrated Intelligence:

- **G5^{Plus} display**

The brighter, crisper displays and added processing power of the G5^{Plus} 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^{Plus} 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^{Plus}.*

*Compared to previous model.

- **Integrated StarFire™ 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 John Deere Operations Center™ account.

- **AutoTrac™**

Enjoy hands-free turns and reduced overlap, all while maximising 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.

**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 mobile connection to transfer information from machine to JDLink website. Consult your John Deere Dealer for coverage availability.



7R TRACTOR CAB

RIDE IN COMFORT



Take a seat in the most comfortable chair in the industry. View displays easier when running applications with the bigger, clearer and faster G5^{plus} display 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. 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.



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 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 most 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.au/7R or JohnDeere.co.nz/7R.

SELECT	PREMIUM	ULTIMATE
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Cloth seat with electronic controls and pneumatic lumbar support; 25° left-hand and 40° right-hand swivel • 16.5 cm (6.5 in.) 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 	<ul style="list-style-type: none"> • Leather seat with electronic controls, massage and pneumatic lumbar support; 25° left-hand and 40° right-hand swivel; heated and ventilated; adjustable bolsters • 16.5 cm (6.5 in.) 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 new 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">• 18 Halogen work lights• Mechanical exterior mirrors• Front window sunshade• Front and rear window wipers• Camera ready	<ul style="list-style-type: none">• 18 LED work lights• Electronic, heated exterior mirrors• Front, right-hand, and rear window sunshades• Front, right-hand, and rear window wipers• Camera ready	<ul style="list-style-type: none">• 22 LED work lights, 8 LED convenience lights• Electric, heated, power telescoping exterior mirrors• Front, right-hand, and rear window sunshades• Front, right-hand, and rear window wipers• Integrated cameras

Ultimate Visibility package shown.



7R TRACTOR CABS

ENJOY THE VIEW

The view is amazing from any angle. Look at implements behind you with ease, thanks to three times more swivel to the left (compared to previous models). Pneumatic lumbar support and electronic controls let you make adjustments with ease.





SEE MORE. KNOW MORE. DO MORE.

G5^{Plus} CommandCenter™ Display

Bigger. Faster. Clearer.

Ready to see more? Know more? DO more? The G5^{Plus} CommandCenter Display gives you a bigger picture of your 7R's performance and work in the field.

- 32.5 cm (12.8 in.) touchscreen — 35% larger to make on-the-go infield adjustments easier¹
- 3x faster processor ... for quicker boot times¹
- 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^{Plus} CommandCenter comes with a permanent AutoTrac™ and Section Control license. And a permanent AutoTrac RowSense™ license is also available. And 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 free², 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 maximise 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
- Analyse this season's results to improve next season's crops

¹ Compared with previous Generation 4 displays

² 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 mobile connection to transfer information from machine to JDLink website. Consult your John Deere Dealer for coverage availability.

MORE PRECISION. MORE AUTOMATION. MORE PRODUCTIVITY.

G5 Advanced Package

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 or 3-year licence. 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.



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 utilises 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 maximises 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 40 or 50 km/h — and any speed in between, including creeper speeds as low as 50 m (164 ft.) 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 from the disturbance 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 customisable 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 tonnes.



*Only available on FT4 engine.



ActiveCommand Steering 2 (ACS™ 2)

Optional ACS2 allows you to customise 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 centre like an on-road vehicle, when activated.

7R TRACTORS HITCHES, AXLES, HYDRAULICS

THE POWER-DRIVEN SUPPORT YOU NEED

With a rear hitch capacity of 7,847 kg, you're set to pull large planters, and the optional front hitch has operations covered with front-mounted implements. 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.

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 to John Deere Connected Support, we have just what you need to keep running all year long.

POWERGARD

The PowerGard Protection Plan¹ 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 24-month basic warranty² 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 authorised 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.au/PowerGard or JohnDeere.co.nz/PowerGard.

¹ The PowerGard Protection Plan does not cover attachments, maintenance or wear parts, nor other non-covered components specifically mentioned in the contract terms.

² All new John Deere 7R Series tractors come with a standard basic warranty of 24 months.

A man wearing a black John Deere baseball cap and a blue and white striped polo shirt stands in a field. He is looking off to the side with a slight smile. His arms are crossed. The background is a blurred field under a cloudy sky.

CONNECTED SUPPORT

Your 7R tractor comes standard with JDLink 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 analyse 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.

Expert Alerts

An industry exclusive, Expert Alerts is a proactive monitoring system that notifies dealers of potential tractor issues. This allows technicians to remotely diagnose issues and fix them before they become a problem.

Remote Display Access

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

Learn more at [JohnDeere.com .au/ConnectedSupport](http://JohnDeere.com.au/ConnectedSupport) or JohnDeere.co.nz/ConnectedSupport.

FIND WHAT YOU NEED AT THE ONE 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.

* 12 month limited warranty on new OEM, Reman and A&I agricultural parts purchased from an authorised John Deere dealer. See John Deere Limited A&I Products Warranty at JohnDeere.com.au or JohnDeere.co.nz for details.

THE JOHN DEERE DIFFERENCE

- Right Part for Any Budget
- Highly Trained Expert Technicians
- 12 Months Parts & Labour Warranty*

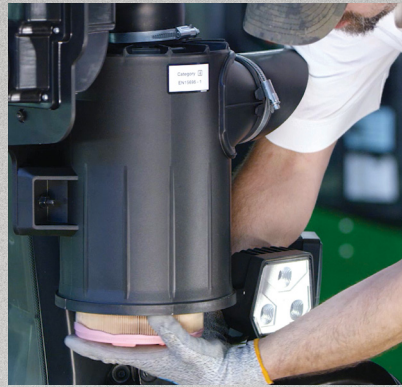


Power Adapter/Power Strip

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 and 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 vapours) while operating your 7R.

BRE10588: Cat 4 Upgrade Field Kit



LSB Ride Control

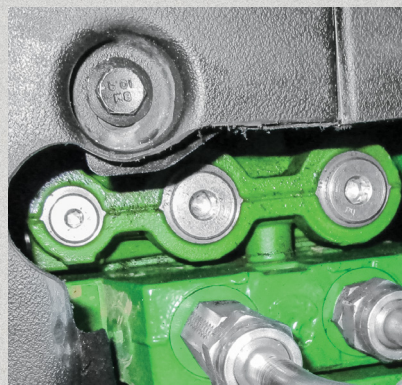
Equip your 7R with Large Square Baler Ride Control, an integrated software system that slightly varies speed to mitigate tractor vibrations when paired with an LSB.

TR116947: LSB Ride Control Kit



Laforge® EZ Ballast® System

Tucked underneath the belly of the tractor, EZ Ballast provides 1700 kg (3,748 lbs.) 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 Tyre Inflation System

Due to our partnership with PTG, you can now have the benefit of monitoring and controlling tyre pressure right from the comfort of your cab. Not compatible with 7R tractors equipped with a loader. Contact your dealer for details.

BXX10967: Mid-Stack Power Beyond

SPECIFICATIONS 7R TRACTORS (EU STAGE V/US EPA FINAL TIER 4)

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								
Electronically controlled, high-pressure common rail with electric fuel transfer pump (self priming)								
Filter system	Two stage with water separator and service indicator light							
Filter, primary	10 micron replaceable cartridge w/water indication sensor and drain							
Filter, secondary	2 micron spin-on element							
TRANSMISSIONS								
e23 PowerShift 40K, 26 mph (40 km/h)	Standard (42 km/h @ 1680 rpm w/grp 47 tyres, 42 km/h @ 1600 rpm w/grp 48 tyres, 42 km/h @ 1520 rpm w/grp 49 tyres)					Standard 42 km/h @ 1600 rpm w/grp 48 tyres, 42 km/h @ 1520 rpm w/grp 49 tyres)		NA
e23 PowerShift 50K, 31 mph (50 km/h)	Available (50 km/h @ 2000 rpm w/grp 47 tyres, 50 km/h @ 1900 rpm w/grp 48 tyres, 50 km/h @ 1800 rpm w/grp 49 tyres)					Available 50 km/h @ 1900 rpm w/grp 48 tyres, 50 km/h @ 1800 rpm w/grp 49 tyres)		NA
John Deere Infinitely Variable Transmission, 26 mph (42 km/h)	Available (42 km/h @ 1440 rpm w/grp 47 tyres, 42 km/h @ 1360 rpm w/grp 48 tyres, 42 km/h @ 1290 rpm w/grp 49 tyres)					Available (42 km/h @ 1360 rpm w/grp 48 tyres, 42 km/h @ 1290 rpm w/grp 49 tyres)		
John Deere Infinitely Variable Transmission, 31 mph (50 km/h)	Available (50 km/h @ 1800 rpm w/grp 47 tyres, 50 km/h @ 1700 rpm w/grp 48 tyres, 50 km/h @ 1620 rpm w/grp 49 tyres)					Available (50 km/h @ 1700 rpm w/grp 48 tyres, 50 km/h @ 1620 rpm w/grp 49 tyres)		
ELECTRICAL SYSTEM								
Two batteries in parallel								
Alternator/Battery	Standard: 210 amp / 12 volt, Available: 250 amp / 12 volt							
Total cold cranking amps	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 tyres available as singles/duals					Group 48/49 tyres 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-centre, pressure/flow compensated								
Selective control valves	Standard: 4, Available: 5 - 6							
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]							
REAR POWER TAKE OFF (PTO)								
Independent								
1-3/4 in, 20-spline, 1,000-rpm	Standard							
1-7/8 in, 20-spline, 1,000-rpm; capable of 1-3/4 in 540/1000 rpm	Available							
1-3/4 in, 20-spline, 1,000-rpm; capable of 1-3/4 in 540/1000/1000E rpm	Available							
1-7/8 in, 20-spline, 1,000-rpm; capable of 1-3/4 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							
Command Center™ 8.4 in (213 mm) w/ 4200 processor	Availability dependent upon destination							
Command Center™ 10 in (254 mm) w/ 4600 processor	Availability dependent upon destination							
CAPACITIES								
Fuel tank, e23	122 gal (463 L)						NA	
Fuel tank, IVT	135 gal (513 L)							
DEF tank	6.9 gal (26.2 L)							

Specifications and design subject to change without notice. Pre-production models shown.

*John Deere Standard RES10080, SAE Standards J1995. The engine horsepower and torque information for non-Deere engines are provided by the engine manufacturer and are to be used for comparison purposes only.

Actual operating horsepower and torque may be less. Refer to the engine manufacturer's website for additional information.

† 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.

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



SPECIFICATIONS 7R TRACTORS (EU STAGE II/US EPA TIER 2 ENGINE)

Manufacturers Estimates	7R 210		7R 230
POWER			
Rated PTO power (hp SAE) at rated engine speed (2100 erpm)*†	170 hp (126 kW)		189 hp (140 kW)
Rated engine power PS (hp ISO) at rated engine speed (ECE-R120)*	210 hp (154 kW)		230 hp (169 kW)
Rated engine power PS (hp ISO) at 2100 engine rpm (ECE-R24)	202 hp (148 kW)		221 hp (162 kW)
Max engine power PS (hp ISO) at 1900 engine rpm (ECE-R120)*	231 hp (170 kW)		253 hp (186 kW)
Max engine power PS (hp ISO) at 1900 engine rpm (ECE-R24)	222 hp (163 kW)		243 hp (179 kW)
PTO torque rise	40%		35%
PTO power bulge	10%		
Engine peak torque (Nm) (40% @ 1600rpm)	983		1038
Constant power range (rpm)	1500 - 2100		
ENGINE			
Manufacturer (US EPA Interim Tier2/EU Stage II)	John Deere PowerTech™ 6.8L		
Rated speed	2,100 rpm		
Type	Diesel, in-line, 6-cylinder, wet-sleeve cylinder liners with 4 valves-in-head		
Aspiration	Single fixed geometry turbocharger		
Filter, engine air	Dual stage		
Displacement	415 cu in (6.8L)		
Bore and stroke	4.19 in (106 mm) x 5.00 in (127 mm)		
Compression ratio	17.0:1		
Lubrication	Full-pressure, full-flow filtration with bypass		
Filter, oil	Replaceable cartridge style oil filter		
FUEL SYSTEM	Electronically controlled, high-pressure common rail with electric fuel transfer pump (self priming)		
Filter system	Two stage with water separator and service indicator light		
Filter, primary	10 micron replaceable cartridge w/water indication sensor and drain		
Filter, secondary	2 micron spin-on element		
TRANSMISSIONS			
e23 Transmission 40K	Standard (40 km/h @ 1680 rpm w/grp 47 tyres, 40 km/h @ 1600 rpm w/grp 48 tyres, 40 km/h @ 1520 rpm w/grp 49 tyres)		
e23 Transmission 50K	Available (50 km/h @ 2000 rpm w/grp 47 tyres, 50 km/h @ 1900 rpm w/grp 48 tyres, 50 km/h @ 1800 rpm w/grp 49 tyres)		
John Deere Infinitely Variable Transmission (IVT) 0.030-26 mph (0.050-40 km/h)	Available (40 km/h @ 1440 rpm w/grp 47 tyres, 40 km/h @1360 rpm w/grp 48 tyres, 40 km/h @ 1290 rpm w/grp 49 tyres)		
John Deere Infinitely Variable Transmission (IVT) 0.030- 31 mph (0.050-50 km/h)	Available (50 km/h @ 1800 rpm w/grp 47 tyres, 50 km/h @ 1700 rpm w/grp 48 tyres, 50 km/h @ 1620 rpm w/grp 49 tyres)		
ELECTRICAL SYSTEM			
Alternator/Battery	Two batteries in parallel 210 amp / 12 volt		
Total cold cranking amps	1850 (2-925 CCA grp 31 batteries)		
REAR AXLE FINAL DRIVES			
Description	Inboard planetary three pinion		
REAR AXLES			
	Rack-and-pinion		
110 x 2550 mm diameter (3.94 x 100.4 in)	Available		
110 x 2808 mm diameter (3.94 x 110.5 in)	Available		
110 x 3012 mm diameter (3.94 x 118.5 in)	Available		
120 x 2550 mm diameter (4.72 x 100.4 in)	Available		
120 x 3012 mm diameter (4.72 x 118.5 in)	Available		
*335 mm Flanged Axle	Available		
REAR WHEEL EQUIPMENT			
Description	Group 47/48/49 tyres available as singles/duals		
FRONT AXLES			
	Available		
1300 Series MFWD - tread range 60 to 88 in (1524 to 2235 mm)	Available		
TLS - tread range 60 to 88 in (1524 to 2235 mm)	Standard		
TLS with front brakes, available with 40 km/h, standard with 50 km/h	Available		
STEERING			
	Tilt & telescope steering with memory function		
Hydraulic power steering w/ electronic back-up pump	Standard: Load sensing hydraulic w/ flow		
ActiveCommand Steering 2 (ACS2) w/ electronic back-up pump	Available: Variable ratio steering		
DIFFERENTIAL LOCK - FRONT AXLE			
1300 Series MFWD	Limited Slip		
TLS	Limited Slip		
TLS with front brakes	Full-locking electrohydraulic (actuated at same time as rear diff-lock)		
DIFFERENTIAL LOCK - REAR AXLE			
Full-Locking electrohydraulic	Standard		
HYDRAULIC SYSTEM			
	Closed-centre, pressure/flow compensated		
Selective control valves	Standard: 4, Available: 5 - 6		
Main pump, axial piston (displacement)	Standard: 63 cc, Available: 85 cc		
Maximum pressure	20,400 + or- 300 kPa (2,958 psi)		
Rated flow, 63cc pump	162 lpm (43 US gpm)		
Rated flow, 85cc pump	223 lpm (59 US gpm)		
Available flow at a single rear SCV	132 lpm (35 US gpm)		
Available flow at a single front SCV	126 lpm (33 US gpm)		
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: 6894 kg (15,200 lb)		
Category 3/3N w/ Quick-Coupler	Available: 7847 kg (17,300 lb) [requires 120 mm dia axle]		
Category 3/3N w/ hook ends	Standard: 6894 kg (15,200 lb)		
Category 3/3N w/ hook ends	Available: 7847 kg (17,300 lb) [requires 120 mm dia axle]		

Specifications and design subject to change without notice. Pre-production models shown.

*John Deere Standard RES10080, SAE Standards J1995. The engine horsepower and torque information for non-Deere engines are provided by the engine manufacturer and are to be used for comparison purposes only. Actual operating horsepower and torque may be less. Refer to the engine manufacturer's website for additional information.

† 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.

Manufacturers Estimates	7R 210	7R 230
DRAWBAR		
Cat 3	Standard: 2,200 lb (1000 kg) - 6,100 lb (2766 kg) maximum vertical load dependent on drawbar position	
Cat 3 HD	Available: 6,600 lb (2993 kg) - 10,000 lb (4536 kg) maximum vertical load dependent on drawbar position	
Cat 4 HD	Available: 6,600 lb (2993 kg) - 11,000 lb (4990 kg) maximum vertical load dependent on drawbar position	
3-in-1 hitch rails	Available: CAT 3 std. or CAT 4 std. drawbar, Manual or Automatic Trailer Hitch Coupling, K80 ball coupling, Piton Coupling	
Pick-up hitch	Available: CAT 3 Drawbar, Hook, K80 ball coupling	
REAR POWER TAKE OFF (PTO)		
		Independent
1-3/4 in, 20-spline, 1,000-rpm	Standard	
1-3/4 in, 20-spline, 1,000-rpm; capable of 1-3/8 in 540/1000 rpm	Available	
1-3/4 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 610 mm behind hook point, OECD)	3,150 kg (6994 lb) lift capacity, ground engaging requires premium front hitch	
Lift capacity through full lift range, with hook style ends (measured 0 mm behind hook point, OECD)	3,488 kg (7690 lb) lift capacity, ground engaging requires premium front hitch	
FRONT PTO (power take off)		
1-3/8 in, 6-spline, 1,000-rpm, CCW rotation (facing PTO)	**Available	
1-3/8 in, 6-spline, 1,000-rpm, CCW rotation (facing PTO)	Available	
1-3/4 in, 20-spline, 1,000-rpm, CCW rotation (facing PTO)	Available through parts	
PTO speed @ engine RPM (1:2 ratio)	1000 PTO RPM @ 1940 ERPM	
PTO power (SAE hp)	175 hp (130 kW) maximum output	
INTEGRATED TECHNOLOGY		
Integrated AutoTrac™	Standard	
AutoTrac™ low speed performance	.25 kmh (1VT only)	
AutoTrac™ reverse timeout	Unlimited	
Connectivity Hardware	Includes integrated cab wiring harness, antenna, JDLINK Modem (MTG) and Ethernet harnesses. Ethernet harnesses may vary per configuration.	
Connectivity Subscription	Connectivity service is subject to country availability. JDLINK connectivity can be enabled in John Deere Operations Center.	
Command Center™ 8.4 in (213 mm) w/ 4200 processor	Availability dependent upon destination	
Command Center™ 10 in (254 mm) w/ 4600 processor	Availability dependent upon destination	
BRAKES		
Description	Hydraulically-operated wet-disk	
CAPACITIES		
Fuel tank, e23	583 L (154 gal)	
Fuel tank, IVT	533 L (140 gal)	
Cooling System	39.5 L (41.75 qt)	
Crankcase oil	26 L (27.4 qt)	
Transmission-Hydraulic system, e23	160 L (42.3 gal)	
Transmission-Hydraulic system, IVT	160 L (42.3 gal)	
Front PTO Oil	4.0 L (4.25 qt)	
TLS Plus w/ Diff. Lock	10.8 L (2.8 gal)	
TLS Plus w/ Limited Slip	13.7 L (3.8 gal)	
TLS Plus w/ Limited Slip	N/A	14.4 L (3.8 gal)
TLS Plus w/ Limited Slip	14.4 L (3.8 gal)	N/A
Wheel Hub Without Brakes	3.8 L (4.0 qt)	
Wheel Hub With Brakes	3.8 L (4.0 qt)	
WHEELBASE		
MFWD / TLS	2925 mm (115.2 in)	
MFWD / TLS axle clearance - 1300 axle, G43 420/85R34 tyres	495 mm (19.5 in)	
Turning radius - 420/85R34 group 43 tyres @ 60" spacing, 1300 MFWD	27.2 ft (8.3 m)	
Turning radius - 420/85R34 group 43 tyres @ 68" spacing, 1300 MFWD	21.6 ft (6.6 m)	
Turning radius - 420/85R34 group 43 tyres @ 76" spacing, 1300 MFWD	20.6 ft (6.3 m)	
Turning radius - 420/85R34 group 43 tyres @ 84" spacing, 1300 MFWD	19.7 ft (6.0 m)	
See OM for additional configurations		
AVERAGE BASE WEIGHT		
e23, 63cc pump, 4 SCVs, PTO, CAT3 drawbar, 18.4R46 rear tyres, 420/90R30 rear tyres, TLS	10000 kg (22,200 lb)	
Max ballast level	145 lb/SAE PTO HP - see OM for specific ballast instructions	
Max payload capacity	See OM for details on tractor loading	
CAB		
Cab glass area	70.61 sq ft (6.56 sq m)	
Cab volume	114.42 cu ft (3.24 cu m)	
Cab suspension	Available	

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DSAA76794AU (11/23)

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