

7R Tractors

210-330 Engine horsepower



JOHN DEERE

7R

Moving forward

Multi-functional. Multi-talented. The redesigned 7R Tractors include seven models ranging from 154 to 243 kW (210 to 330 hp) that deliver a refined cab, plus integrated intelligence and high power-density.

Take advantage of three new cab and visibility packages, fight fatigue on those long days with Triple Link Suspension (TLS™) and improved AutoTrac™, and enjoy total tractor control at your fingertips with CommandPRO™.

These are the large-hp tractors with the performance and reliability you need to keep your row-crop, livestock or dairy operations moving forward.



CONTENTS

Moving forward	2-3
7R Overview	4-5
Cab	6-7
Own the day	8-9
Own the night	10-11
Cab view	12-13
Precision ag technology	14-15
Power and efficiency	16-17
Hitches, axles, hydraulics	18-19
Maintenance support	20-21
7R Tractors specifications	22-23
Dealer support	24

7R Tractors Overview

All-New Larger Cab – Select from three packages so your cab works the way you work. Features include a new ergonomic seat, Generation 4 CommandCenter™ Display, improved suspension, and more.

New 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.

New Styling – All-new exterior styling allows for more interior space compared to previous models.

e23™ PowerShift Transmission – Meet the demands of whatever conditions are thrown your way – and save on fuel costs – with three operating modes: Auto, Custom, and Manual.

Integrated Intelligence:

- **CommandPRO™** – Experience seamless control of your tractor and implements in the palm of your hand. Eleven configurable buttons keep you in command of your operation.
- **StarFire™ 6000 Receiver** – Faster planting, better accuracy, ultimate precision.
- **JDLink™*** – See where your machines are, what they're doing, and how they're performing with JDLink.
- **AutoTrac™** – Enjoy hands-free turns and reduced overlap, all while maximising inputs and reducing fatigue.



*Activation/subscription required. Some additional accessories and/or components may be required. JDLink requires a mobile connection to transfer information from machine to JDLink website. Consult your John Deere Dealer for coverage availability. Gen 4 Activations are machine specific activations that remain with the tractor. Free subscription to JDLink expires five years from date of purchase of qualifying 7R Tractor. This subscription will not be automatically renewed. To continue your subscription, you must actively renew and subscription fees shall apply.



Ride in comfort

When the hours are long and the terrain is tough, there's no better place to be than our all-new cab. Your home away from home. Step inside our most spacious cab through the 24% wider doorway than before. Enjoy more space than our previous cab, complete with extra headroom, extra storage capacity, and extra USB ports. 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 radio with auxiliary and Bluetooth inputs; 4 speakers ■ Business-band ready ■ 4 USB ports and 12V outlet ■ Dual-tilt steering column 	<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, 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, 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



Ultimate Comfort and Convenience package shown.

Own the day

Take a seat in the most comfortable chair in the industry. 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. (Available in Ultimate Comfort & Convenience Package only).





7R TRACTOR VISIBILITY PACKAGES

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">■ 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■ Rear integrated camera

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.



Ultimate Visibility package shown.

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.





Integrated Intelligence



It's easier than ever to have a connected machine. All new 7R tractors come standard with JDLink™ and five years of connected service* and capabilities, enabling you to easily benefit from technology-enabled machines.

By connecting through JDLink, you can wirelessly share information and plans with those who help you farm to make even better decisions. View reported work completed timely with Data Sync. Stay running in the field with help from your dealer using John Deere Connected Support™ and Remote Display Access. Keep track of your operation anytime and from anywhere from a desktop computer or a mobile device with John Deere Operations Center and MyOperations™ mobile app.

The primary user interface with the 7R Tractors is the Generation 4 CommandCenter™ Display for added productivity while boosting your confidence to make every pass more efficient.

Get started faster with more precision, less calibration and faster pull-in time with the integrated StarFire™ 6000 Receiver and SF3 signal. Precision Ag is built-in the tractor with AutoTrac™, Documentation, and Data Sync unlocked and ready for use. Find out more about all our latest technology including John Deere Operations Center at JohnDeere.com.au/7R or JohnDeere.co.nz/7R.



*Activation/subscription required. Some additional accessories and/or components may be required. JDLink requires a mobile connection to transfer information from machine to JDLink website. Consult your John Deere Dealer for coverage availability. Gen 4 Activations are machine specific activations that remain with the tractor. Free subscription to JDLink expires five years from date of purchase of qualifying 7R Tractor. This subscription will not be automatically renewed. To continue your subscription, you must actively renew and subscription fees shall apply.

7R TRACTORS POWER AND EFFICIENCY

Shift into high gear





The **John Deere PowerTech™ PVS 6.8L** (FT4/ Stage V) 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** (FT4/ Stage V) 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 and 7R 330 include the **John Deere PowerTech PVS 9.0L** (FT4/ Stage V) engine. With two turbochargers - a VGT and a fixed geometry version - 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/h with a single lever.

New CommandPRO™ (IVT only) delivers seamless control of your tractor and implements all in the palm of your hand.

The 7R 210 and 7R 230 are also available with optional John Deere PowerTech™ 6.8L Tier 2/Stage II engine.

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 give you the drawbar pulling power you need in all operating conditions with reduced power hop.







The connected support you need

When you're running, you don't want anything to slow you down. Your 7R Tractor comes with five years of JDLink connected service.* Once activated, your John Deere dealer can offer John Deere Connected Support™ services such as Remote Display Access and Service ADVISOR™ Remote, allowing your dealer to "dial in" to your tractor's diagnostic data and assess trouble codes to help you avoid downtime.

Protect your investment with a PowerGard™ Plan**. The John Deere PowerGard Protection Plan lets you purchase extended coverage and powertrain warranty coverage for up to an additional four years or 3,000 hours over the normal warranty period. Get flexible coverage, low excesses and peace of mind. Ask your dealer for details or go to JohnDeere.com.au/PowerGard or JohnDeere.co.nz/PowerGard.

*Free subscription to JDLink expires five years from date of purchase of qualifying 7R Tractor. This subscription will not be automatically renewed. To continue your subscription, you must actively renew and subscription fees shall apply. For additional details, see footnote on page 15.

**PowerGard Protection Plan extended warranty covers failures due to defective materials or original workmanship of covered components. Customers have a choice between either the Limited (engine & powertrain) coverage form or the Comprehensive (full-machine) coverage form.



SPECIFICATIONS

MODELS	7R 210	7R 230	7R 250	7R 270	7R 290	7R 310	7R 330
POWER							
Rated PTO power (kW SAE) at rated engine speed (2100 erpm)†	126 kW (170 hp)	140 kW (189 hp)	152 kW (205 hp)	167 kW (224 hp)	180 kW (242 hp)	193 kW (260 hp)	193 kW (260 hp)
Rated engine power PS (kW ISO) at rated engine speed (ECE-R120)*	154 kW (210 hp)	169 kW (230 hp)	184 kW (250 hp)	199 kW (270 hp)	213 kW (290 hp)	228 kW (310 hp)	243 kW (330 hp)
Max engine power PS (kW ISO) at 1900 engine rpm (ECE-R120)	170 kW (231 hp)	186 kW (253 hp)	202 kW (275 hp)	218 kW (297 hp)	235 kW (319 hp)	251 kW (341 hp)	267 kW (363 hp)
Intelligent Power Management* [Available] (FT4/ Stage V Only)	22 additional engine kilowatts (30 hp) at 2,100 rpm (rated speed)						
PTO torque rise							
FT4/Stage V	40%						
Tier 2/Stage II	40%	35%	N/A				
PTO power bulge	10%						
ENGINE							
Manufacturer FT4/Stage V	John Deere PowerTech™ PVS 6.8L	John Deere PowerTech™ PSS 6.8L			John Deere PowerTech™ PVS 9.0L		
Tier 2/Stage II	John Deere PowerTech™ 6.8L		N/A				
Rated speed	2,100 rpm						
Aspiration FT4/Stage V	Single turbocharger, variable geometry turbo	Dual turbochargers, variable geometry turbo with fixed geometry turbo in series			Single turbocharger, variable geometry turbo		
Tier 2/Stage II	Single fixed geometry turbocharger		N/A				
Filter, engine air	Dual stage						
Displacement	6.8L (415 cu in)				9.0L (549 cu in)		
Bore and stroke	106 mm (4.19 in) x 127 mm (5.00 in)				118.4 mm (4.66 in) x 136 mm (5.35 in)		
Compression ratio FT4/Stage V	17.2:1	16.0:1					
Tier 2/Stage II	17.2:1		N/A				
Lubrication	Full-pressure, full-flow filtration with bypass						
Filter, oil	Replaceable cartridge style oil filter						
FUEL SYSTEM							
Type	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, 40 km/h (26 mph)	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)	
e23 PowerShift 50K, 50 km/h (31 mph)	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)	
John Deere Infinitely Variable Transmission, 42 km/h (26 mph)	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, 50 km/h (31 mph)	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

Type	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

Type	Inboard planetary three pinion						
------	--------------------------------	--	--	--	--	--	--

REAR AXLES

Type	Rack-and-pinion						
110 x 3010 mm diameter (4.33 x 118.5 in)	Standard						
110 x 2550 mm diameter (4.33 x 100.4 in)	Available						
110 x 2808 mm diameter (4.33 x 110.5 in)	Available						
120 x 2550 mm diameter (4.72 x 100.4 in)	Available						
120 x 3010 mm diameter (4.72 x 118.5 in)	Available						

REAR WHEEL EQUIPMENT

Type	Group 47/48/49 tyres available as singles/duals					Group 48/49 tyres available as singles/duals	
------	---	--	--	--	--	--	--

FRONT AXLES

1150 Series MFWD - tread range 1524 to 2235 mm (60 to 88 in)	Standard	N/A
1300 Series MFWD - tread range 1524 to 2235 mm (60 to 88 in)	N/A	Standard
TLS - tread range 1524 to 2235 mm (60 to 88 in.)		Available
TLS with front brakes, available with 40km/h, standard with 50km/h		Available

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.

MODELS	7R 210	7R 230	7R 250	7R 270	7R 290	7R 310	7R 330
HYDRAULIC SYSTEM							
Type	Closed-center, 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	162 L/min (43 US gpm)						
Rated flow, 85cc pump	223 L/min (59 US gpm)						
Available flow at a single rear SCV	132 L/min (35 US gpm)						
Available flow at a single front SCV	126 L/min (33 US gpm)						
Take out oil capacity	Standard: 65 L, Available: 85 L (aux reservoir)						
3-POINT HITCH – REAR							
Type	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 120mm dia axle]						
REAR POWER TAKE OFF (PTO)							
Type	Independent						
45 mm (1-3/4 in), 20-spline, 1,000-rpm	Standard						
45 mm (1-3/4 in), 20-spline, 1,000-rpm; capable of 35 mm (1-3/8 in) 540/1000 rpm	Available						
45 mm (1-3/4 in), 20-spline, 1,000-rpm; capable of 35 mm (1-3/8 in) 540/1000/1000E rpm	Available						
45 mm (1-3/4 in), 20-spline, 1,000-rpm; capable of 35 mm (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							
Type	Category 3N						
Lift capacity through full lift range, with hook style ends (measured 24 in behind hook point, OECD)	3150 kg (6,994 lb) 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)	3488 kg (7,690 lb) 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 FT4/Stage V	463L (122 gal)						
Fuel tank, e23 Tier 2/Stage II	583L (154 gal)						N/A
Fuel tank, IVT FT4/Stage V	513L (135 gal)						
Fuel tank, IVT Tier 2/Stage II	533L (140 gal)						N/A
DEF tank FT4/Stage V	26.2L (6.9 gal)						
DEF tank Tier 2/Stage II	N/A						
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 - 380/85R34 group 42 tyres @ 60" spacing, 1300	7 m (23 ft)					N/A	
Turning radius - 600/70R30 group 43 tyres @ 74.1" spacing, TLS	6.7 m (22 ft)						
Turning radius - 620/75R30 group 44 tyres @ 82" spacing, TLS	8.7 m (28.5 ft)						
See OM for additional configurations							
AVERAGE STANDARD WEIGHT							
(Less front weights)							
1150 MFWD/e23/1-450 lb inner weight/front weight support / Cat3 hitch w/QC/shipping fuel, DEF/480/80R46 duals/420/90R30 fronts	11154 kg (24,590 lb)	11187 kg (24,665 lb)				11484 kg (25,320 lb)	
TLS/IVT/1-450 lb inner weight/front weight support /Cat3 hitch w/QC/ shipping fuel, DEF/480/80R50 duals/420/ 85R34 fronts	11602 kg (25,578 lb)	11636 kg (25,653 lb)				11933 kg (26,308 lb)	
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	6.56 sq m (70.61 sq ft)						
Cab volume	3.24 cu m (114.42 cu ft)						

Supported by one of the most responsive dealer networks in the business

Nobody cares more about keeping your equipment in solid working order than your John Deere dealer. With a complete inventory of genuine John Deere parts, highly trained service technicians, and a thorough understanding of your business, your John Deere dealer knows how to keep you and your equipment up and running. A strong name in equipment, and a strong dealership network: get it all with John Deere.



JOHN DEERE

This literature has been compiled for worldwide circulation. While general information, pictures and descriptions are provided, some illustrations and text may include finance, credit, insurance, product options and accessories NOT AVAILABLE in all countries or regions. In some countries, products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries. PLEASE CONTACT YOUR LOCAL DEALER FOR DETAILS. John Deere reserves the right to change specification and design of all products described in this literature without notice. John Deere's green and yellow colour scheme, the leaping deer symbol, and JOHN DEERE are trademarks of Deere & Company. All photography and illustrations contained herein are copyrighted assets of Deere & Company.

DSAA76792AU (20-02)

JohnDeere.com.au
JohnDeere.co.nz