

8R/8RT/8RX Tractors

230-410 Engine horsepower



JOHN DEERE



Take the Next Leap Forward

At John Deere, we've cultivated more than 100 years of tractor expertise in the pursuit of progress for producers of all kinds. And it's all led to this — the newly redesigned 8 Series Tractors now available in three configurations — wheels, two-tracks and the game-changing four-track 8RX with exceptional traction and flotation. All with the most spacious and comfortable cab we've ever offered.

With more power, durability and comfort than any generation of 8 Series before it and intelligently built to deliver the most integrated experience an operator can have, these are the tractors to lead us into the next 100 years. The next leap forward in brains, brawn and beauty in a 169 to 302 kW (230 to 410 hp) tractor.

So if you're ready to take your operation forward, see your John Deere dealer today.



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The next leap forward in 8R Tractors

We've taken our most popular row-crop tractors and added more of what you want and need. More power of choice including new horsepower models. A dependable 9.0L engine and e23™ PowerShift transmission for pulling power and efficiency. And the Independent Link Suspension for improved ride quality in all conditions.

You'll see even more capability and reliability. A more spacious cab. A new exclusive seat with greater comfort and extra swivel than before. Improved visibility to the ground. LED lighting with 360-degree illumination. A new cab suspension system. Sleek and refined cab styling. New CommandPRO™ (IVT only) putting you in total control. A new integrated StarFire™ receiver and Gen 4 w4600 CommandCenter™ as well as the latest precision ag technology. Imagine how much more work you can do in total comfort and style. Discover more in the pages ahead.

Seven models from 169 to 302 engine kW (230 to 410 hp).
Find out more at JohnDeere.com.au/8R or JohnDeere.co.nz/8R.





The future's on the right track: 8RX Tractors

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

You'll experience outstanding pulling power and efficiency, thanks to the John Deere PowerTech™ 9.0L engine and e23™ PowerShift or Infinitely Variable Transmission (IVT™). We made comfort a top priority with a new larger cab and an easy-to-adjust seat with massaging option for a secure ride in tough terrain. Plus, put total machine control in your hand with CommandPRO™ (IVT only) and all the latest technology you expect from John Deere through our Gen 4 CommandCenter™.

Four models from 231 to 302 engine kW (310 to 410 hp). Find out more at JohnDeere.com.au/8R or JohnDeere.co.nz/8R.



Choose from four tread settings – 193, 203, 224, 305 cm (76", 80", 88", 120") – on three track widths 40.6, 45.7, 61 and 76.2 cm (18", 24" and 30") - to fit your crop and field conditions.



The next level of two-track tractors: The 8RT

The next leap forward in two-track tractors is here: the new 8RT Tractors. By adding 30 extra kilowatts (40 hp) to our top model, the 8RT delivers the straight-line pulling power and the traction and flotation you need to handle your toughest jobs. Our two-track design reduces ground pressure up to 37 percent compared to wheel models, reducing soil compaction.

You've asked for straight-line pulling power and efficiency and higher transport speeds. The 8RT delivers with our John Deere PowerTech™ 9.0L engine and your choice of e23™ PowerShift or Infinitely Variable Transmission (IVT™). You've asked for greater operator comfort. The 8RT delivers with our most spacious cab, comfortable seat and our exclusive AirCushion™ Suspension and 4-post cab suspension. We know you need greater machine control in one hand, and our CommandPRO™ (IVT only) delivers.

Four models from 228 to 302 engine kW (310 to 410 hp).
Find out more at JohnDeere.com.au/8R or JohnDeere.co.nz/8R.



Tread spacing from 183 - 404 cm (72"-160") on
38, 46, 61, 64 and 76 cm (16", 18", 24", 25" and 30")
track widths to fit your job.



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/8R or JohnDeere.co.nz/8R.

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.

8R/8RT/8RX TRACTOR CAB

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).





Own the night

There's no better feeling than knowing you've put in a hard day's work. After all, this is no 9-to-5 job. When you've got a job to do, you keep going even when day turns into night.

Take charge of your night when the daytime hours aren't enough. Our new lighting packages are a bold leap forward, shedding new light on nighttime productivity. With two times more LED lighting than before, you'll get twice the light when compared to Halogen bulbs for a brighter, 360-degree illumination of the field around you. (Available in Ultimate Visibility Package). Choose from three Visibility Packages to help you make the most of your time, no matter the time; 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">■ 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■ Front and rear integrated camera



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. Pneumatic lumbar support and electronic controls let you make adjustments with ease.





Shift into high gear

Power of choice in engines. John Deere PowerTech™ 9.0L engines deliver straight-line pulling power and efficiency while assuring excellent total fluid and fuel economy. Available in Tier 3/Stage IIIa or optional FT4/Stage V, get uncompromised performance up to 302 kW engine power (410 hp), even higher through Intelligent Power Management (FT4/Stage V only). That's the most power we've put in a row-crop tractor.

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. Or the 16-Speed PowerShift transmission for simple, reliable mechanical power.

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





Link up to the latest technology




It's easier than ever to have a connected machine. All new 8 Series 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 8 Series 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/8R or JohnDeere.co.nz/8R.



*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 8R/8RT/8RX Tractor. This subscription will not be automatically renewed. To continue your subscription, you must actively renew and subscription fees shall apply.

The power-driven support you need

From pulling heavy tillage implements to large precision planters to side-dressing crops with minimal soil impact, the new 8R, 8RT and 8RX Tractors deliver more horsepower choices and greater operator comfort than before. With advanced steering technology, suspension systems and a 50 km/h transport option, these tractors are also right at home on the road.





You can handle some of the largest mounted implements in the industry including large planters. 8R, 8RT and 8RX tractors can be equipped with rear hitch options to handle up to 9,072 kg. All 8 Series tractors have PTO options to suit many operations.

Optional dual hydraulic pumps with 318 L/min capacity on 8R and 8RX drive large hydraulic motors even at reduced engine speeds, giving you the power to run large planters and high demand hydraulic implements.



The connected support you need

When you're running, you don't want anything to slow you down. Your 8R/8RT/8RX 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 8R/8RT/8RX 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 21.

** 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 8R TRACTORS

MODEL	8R 230	8R 250	8R 280	8R 310	8R 340	8R 370	8R 410
POWER							
Rated PTO power (kW SAE) at rated engine speed†	135 kW (182 hp)	149 kW (200 hp)	170 kW (228 hp)	191 kW (257 hp)	211 kW (284 hp)	231 kW (310 hp)	231 kW (310 hp)
Rated engine power PS (kW ISO) at rated engine speed (ECE-R120)*	169 kW (230 hp)	184 kW (250 hp)	206 kW (280 hp)	228 kW (310 hp)	250 kW (340 hp)	272 kW (370 hp)	302 kW (410 hp)
Max engine power PS (kW ISO) at max engine power speed (ECE-R120)*	186 kW (253 hp)	202 kW (275 hp)	227 kW (308 hp)	251 kW (341 hp)	275 kW (374 hp)	299 kW (407 hp)	326 kW (443 hp)
Intelligent Power Management* [Available] (FT4/ Stage V Only)	26 additional engine kilowatts (35 hp) at 2,100 rpm (rated speed)						
PTO torque rise	40%						
PTO power bulge	10%						
ENGINE							
Manufacturer							
FT4/Stage V	John Deere PowerTech™ PVS 9.0L				John Deere PowerTech™ PSS 9.0L		
Tier 3/Stage IIIa	John Deere PowerTech™ 9.0L						
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	
Tier 3/Stage IIIa	Dual turbochargers, variable geometry turbo with fixed geometry turbo in series						
Filter, engine air	Dual stage						
Displacement	9.0L (549 cu in)						
Bore and stroke	118 mm (4.66 in.) x 136 mm (5.35 in.)						
Compression ratio	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 spin on element w/water indication sensor and drain						
Filter, secondary	2 micron spin-on element						
Required fuel type	Ultra low sulfur diesel (B20 diesel compatible)						
TRANSMISSIONS							
16-speed PowerShift; 16F, 5R** with APS (Auto Power Shift)	(Forward: 42 km/h @ 2050 erpm, with group 49 tyres, 42 km/h @ 2160 erpm, with group 48 tyres, 40.8 km/h @ 2210 erpm, with group 47 tyres Reverse: 30 km/h)***				NA		
e23 PowerShift 40K, 40 km/h (26 mph)	(Forward: 42 km/h @ 1410 ECO erpm, with group 49 tyres, 42 km/h @ 1480 ECO erpm, with group 48 tyres, 42 km/h @ 1560 ECO rpm with group 47 tyres Reverse: 30 km/h)**						
e23 PowerShift 50K, 50 km/h (31 mph)	(Forward: 50 km/h @ 1670 ECO erpm, with group 49 tyres, 50 km/h @ 1770 ECO erpm, with group 48 tyres, 50 km/h @ 1860 ECO rpm with group 47 tyres Reverse: 30 km/h)**						
John Deere IVT™, 40 km/h (26 mph)	(Forward: 0.05 - 42 km/h, 42 km/h @ 1360 ECO erpm, with group 49 tyres, 42 km/h @ 1430 ECO erpm, with group 48 tyres, 42 km/h @ 1510 ECO rpm with group 47 tyres Reverse: 0.05 - 21 km/h)**					NA	
John Deere Infinitely Variable Transmission, 50 km/h (31 mph)	(Forward: 0.05 - 50 km/h, 50 km/h @ 1630 ECO erpm, with group 49 tyres, 50 km/h @ 1710 ECO erpm, with group 48 tyres, 50 km/h @ 1810 ECO rpm with group 47 tyres Reverse: 0.05 - 21 km/h)**					NA	
ELECTRICAL SYSTEM							
Two batteries in parallel							
Alternator/Battery	Standard: 250 amps / 12 volt, Available: 330 amps / 12 volt						
Total cold cranking amps	1850 (2-925 CCA grp 31 batteries)						
REAR AXLE FINAL DRIVES							
Description	Inboard planetary three pinion						
REAR AXLES							
110 x 3012 mm diameter (4.33 x 118.5 in), dual taper hub	Available				NA		
120 x 3012 mm diameter (4.72 x 118.5 in), dual taper hub	Standard					NA	
120 x 2550 mm diameter (4.72 x 100.4 in), double flat axle with single taper hub	Available						
120 x 3012 mm diameter (4.72 x 118.5 in), double flat axle with single taper hub	Available					Standard	
REAR WHEEL EQUIPMENT							
Description	Group 47/48/49 tyres available as singles/duals/triples						

Specifications and design subject to change without notice. Pre-production models shown. * John Deere Standard RES10080, SAE Standards J1995. ** Base tractor configuration on level ground, with specified tires groups above at mfg recommendation for tire pressure. erpm, are load dependent. † PTO power for IVT models. Does not include available equipment losses. Nominal data is metric. Standard data is converted from metric data. Use metric for all calculations.

MODEL	8R 230	8R 250	8R 280	8R 310	8R 340	8R 370	8R 410
FRONT AXLES							
1300 Series MFWD - tread range 1524 to 2235 mm (60 to 88 in) 5 step drop	Available			NA			
1500 Series MFWD - tread range 1524 to 3657 mm (60 to 144 in) 5 step drop	Available w/ or w/o duals						
ILS - tread range 1524 to 3657 mm (60 to 144 in) 5 or 6 step drop	Available w/ or w/o duals						
ILS/1500 3m tread spacing available	Field installed: 3 meter tread spacing available with front ballast limitations (no duals allowed)						
ILS - suspension travel	± 125 mm (4.92 in) at tread centerline for 5 step ratio axle at 1880 mm tread						
ILS with front brakes, available with 40K, available with 50K	Available w/ or w/o duals						
STEERING							
Tilt & telescope steering with memory function							
Hydraulic power steering w/ electronic back-up pump	Standard: Ratio/turns lock-to-lock - ILS (18.9:1/4.3), 1500 Series MFWD (22.8:1/5), 1300 Series MFWD (14.2:1/3.4)						
Active Command Steering w/ electronic back-up pump	Available: Variable ratio 15:1 to 23:1 (3.1-5.0 turns lock-to-lock) w/ passive feedback						
DIFFERENTIAL LOCK - FRONT AXLE							
1300 Series MFWD	Limited Slip			NA			
1500 Series MFWD	Full-locking electrohydraulic (actuated at same time as rear diff-lock)						
ILS	Full-locking electrohydraulic (actuated at same time as rear diff-lock)						
DIFFERENTIAL LOCK - REAR AXLE							
Full-Locking electrohydraulic	Standard						
HYDRAULIC SYSTEM							
Closed-center, pressure/flow compensated system with load sensing							
Rear selective control valves with 1/2 in ISO couplers	Standard: 4; Available: 5 - 6						
Rear selective control valves with 3/4 in and 1/2 in ISO couplers	Available: 5 (SCV 1: 3/4 in coupler, SCV 2-5: 1/2 in couplers)						
Main pump, axial piston (displacement)	Standard: 85cc, Available: dual pump (85cc plus 35cc)						
Maximum pressure	2,958 psi (20,400 ± 300 kPa)						
Rated flow, 85cc pump	227 L/min (60 gpm)						
Rated flow, dual pump 85cc plus 35cc	318 L/min (84 gpm)						
Available flow at a single rear SCV	132 L/min (35 gpm) 1/2 in coupler, 159 L/min (42 gpm) 3/4 in coupler						
3-POINT HITCH - REAR							
ft capacity per OECD: 24 inch / 610 mm behind the coupler) Electrohydraulic sensing							
Category 3/3N w/ Quick-Coupler - all axle diameters	Standard: 6895 kg (15,200 lb)			NA			
Category 3/3N w/ Quick-Coupler - 120 mm axle	Available: 8391 kg (18,500 lb)			NA			
Category 4N/3 w/ Quick-Coupler - all axle diameters	Available: 6893 kg (15,200 lb)						
Category 4N/3 w/ Quick-Coupler - 120 mm axle	Available: 9072 kg (20,000 lb)			Standard: 9072 kg (20,000 lb)			
REAR POWER TAKE OFF (PTO)							
Independent, electrohydraulic switched via oil-cooled multi-disc clutch							
45 mm (1-3/4 in), 20-spline, 1,000-rpm	Standard			NA			
45 mm (1-3/4 in), 20-spline, 1,000-rpm; capable of 35 mm (1-3/8 in) 540/1000 rpm	Available			NA			
45 mm (1-3/4 in), 20 spline, 1,000-rpm / 1,000E RPM	Available						
PTO speed @ engine RPM	(1000 PTO rpm @ 2003 engine rpm, 1000 ECO PTO rpm @ 1596 engine rpm, and 540 PTO rpm @ 1817 engine rpm for 16 spd PST) (1000 PTO rpm @ 2000 engine rpm, 1000 ECO PTO @ 1594 engine rpm, and 540 PTO rpm @ 1814 engine rpm for IVT) (1000 PTO rpm @ 1995 engine rpm, 1000 ECO PTO @ 1590 engine rpm, and 540 PTO rpm @ 1810 engine rpm for e23 PST)						
3-POINT HITCH - FRONT							
Category 3N ground engaging							
Standard lift capacity	5200 kg (11,464 lb)						
INTEGRATED TECHNOLOGY							
Category 3N ground engaging							
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						
CAPACITIES							
(lift capacity per OECD: 610 mm / 24 inch behind the coupler) Electrohydraulic sensing							
Fuel tank	727 L (192 gal)						
DEF tank	37.2 L (9.8 gal)						

SPECIFICATIONS 8R TRACTORS

MODEL	8R 230	8R 250	8R 280	8R 310	8R 340	8R 370	8R 410
WHEELBASE							
1300 Series MFWD / 1500 Series MFWD & ILS	3080 mm (121.3 in) / 3050 mm (120 in)			NA / 3050 mm (120.1 in)			
MFWD / ILS axle clearance	686 mm (27 in) / 590 mm (23.2 in)						
AVERAGE STANDARD WEIGHT							
IVT, ILS, 420/85R34 front tyres, 480/80R50 rear tyres, dual pumps, 6 SCVs, PTO, CAT4 hitch, HD drawbar, shipping fuel				12600 kg (27,800 lb)			
e23, ILS, 600/70R30 front tyres, 710/70R42 rear tyres, dual pumps, 6 SCVs, PTO, CAT4 hitch, HD drawbar, shipping fuel				12700 kg (28,000 lb)			
16spd, 1500 MFWD, 380/80R38 front tyres, 480/80R50 rear tyres, single pump, 4 SCVs, PTO, CAT3 hitch, std. drawbar, shipping fuel	9070 kg (20,000 lb)			NA			
e23, 1300 MFWD, 420/8R34 front tyres, 480/80R50 rear tyres, single pump, 4 SCVs, PTO, CAT3 hitch, std. drawbar, shipping fuel	11700 kg (25,800 lb)			NA			
CAB							
Cab glass area				6.56 sq m (70.61 sq ft)			
Cab volume				3.24 cu m (114.42 cu ft)			



Specifications and design subject to change without notice. Pre-production models shown. *John Deere Standard RES10080, SAE Standards J1995. **Base tractor configuration on level ground, with specified tires groups above at mfg recommendation for tire pressure. erpm, are load dependent. †PTO power for IVT models. Does not include available equipment losses. Nominal data is metric. Standard data is converted from metric data. Use metric for all calculations.

SPECIFICATIONS 8RT TRACTORS

MODEL	8RT 310	8RT 340	8RT 370	8RT 410
POWER				
Rated PTO power (kW SAE) at rated engine speed ¹ *	183 kW (246 hp)	203 kW (273 hp)	223 kW (300 hp)	223 kW (300 hp)
Rated engine power PS (kW ISO) at rated engine speed (ECE-R120)*	228 kW (310 hp)	250 kW (340 hp)	272 kW (370 hp)	302 kW (410 hp)
Max engine power PS (kW ISO) at max engine power speed (ECE-R120)*	251 kW (341 hp)	275 kW (374 hp)	299 kW (407 hp)	326 kW (443 hp)
Intelligent Power Management* [Available] (FT4/ Stage V Only)	26 additional engine kilowatts (35 hp) at 2,100 rpm (rated speed)			
PTO torque rise	40%			
PTO power bulge	10%		8%	
ENGINE				
Manufacturer				
FT4/Stage V	John Deere PowerTech™ PVS 9.0L		John Deere PowerTech™ PSS 9.0L	
Tier 3/Stage IIIa	John Deere PowerTech™ 9.0L			
Rated speed	2,100 rpm			
ENGINE				
Aspiration				
FT4/Stage V	Single turbocharger, variable geometry turbo		Dual turbochargers, variable geometry turbo with fixed geometry turbo in series	
Tier 3/Stage IIIa	Dual turbochargers, variable geometry turbo with fixed geometry turbo in series			
Filter, engine air	Dual stage			
Displacement	9.0L (549 cu in)			
Bore and stroke	118 mm (4.66 in.) x 136 mm (5.35 in.)			
Compression ratio	16.0:1			
Lubrication	Full-pressure, full-flow filtration with bypass			
Filter, oil	Replaceable cartridge style oil filter			
TRANSMISSIONS				
e23 PowerShift 40K, 40 km/h (26 mph) with Efficiency Manager™	(Forward: 42 km/h @ 1600 ECO erpm; Reverse: 30 km/h)**			
Infinitely Variable Transmission (IVT™) 40 km/h (26 mph)	(Variable forward: 0.05 - 42 km/h, 42 km/h @ 1550 ECO erpm Variable reverse: 0.05 - 21 km/h)**		NA	
REAR AXLES				
Tread spacing	1829 - 3048 mm (72 - 120 in)			
Tread spacing	2845 - 4064 mm (112 - 160 in)			
Drive type	Friction			
Track width	406 mm (16 in), 457 mm (18 in), 609 mm (24 in), 635 mm (25 in), 762 mm (30 in)			
Drive wheel width	381 mm (15 in), 610 mm (24 in)			
Midroller width	381 mm (15 in), 610 mm (24 in)			
Midrollers	Polyurethane or rubber			
STEERING				
Tilt & telescope steering with memory function				
Hydraulic power steering w/ electronic back-up pump	Ratio/turns lock-to-lock: 1.8, speed sensitivity adjustment			
HYDRAULIC SYSTEM				
Closed-center, pressure/flow compensated system with load sensing				
Rear selective control valves with 1/2 in ISO couplers	Standard: 4; Available: 5 - 6			
Rear selective control valves with 3/4 in and 1/2 in ISO couplers	Available: 5 (SCV 1: 3/4 in coupler, SCV 2-5: 1/2 in couplers)			
Main pump, axial piston (displacement)	Single pump 85cc			
Maximum pressure	2,958 psi (20,400 ± 300 kPa)			
Rated flow, 85cc pump	227 L/min (60 gpm)			
Available flow at a single rear SCV	132 L/min (35 gpm) 1/2 in coupler, 159 L/min (42 gpm) 3/4 in coupler			
3-POINT HITCH - REAR				
Lift capacity per OECD: 24 inch / 610 mm behind the coupler, Electrohydraulic sensing				
Category 4N/3 with Quik-Coupler and sway blocks	6894 kg (15,200 lb)			
Category 4N/3 with Quik-Coupler and sway blocks	9072 kg (20,000 lb)			
REAR POWER TAKE OFF (PTO)				
Independent, electrohydraulic switched via oil-cooled multi disk clutch				
45 mm (1-3/4 in), 20-spline, 1,000-rpm	Standard			
PTO speed @ engine RPM	1000 PTO rpm @ 2000 engine rpm			
BRAKES				
Description	Power, disc			
WHEELBASE				
Description	2508 mm (98.7 in)			
AVERAGE STANDARD WEIGHT				
e23, 30in tracks, 5 SCVs, CAT4 hitch, HD drawbar, shipping fuel	16600 kg (36,500 lb)			
IVT, 18in tracks, 5 SCVs, CAT4 hitch, HD drawbar, shipping fuel	16200 kg (35,850 lb)			
e23, 25in tracks, 5 SCVs, CAT4 hitch, HD drawbar, shipping fuel	15600 kg (34,400 lb)			

SPECIFICATIONS 8RX TRACTORS

MODEL	8RX 310	8RX 340	8RX 370	8RX 410
POWER				
Rated PTO power (kW SAE) at rated engine speed [†]	191 kW (257 hp)	211 kW (284 hp)	231 kW (310 hp)	231 kW (310 hp)
Rated engine power PS (kW ISO) at rated engine speed (ECE-R120)*	228 kW (310 hp)	250 kW (340 hp)	272 kW (370 hp)	302 kW (410 hp)
Max engine power PS (kW ISO) at max engine power speed (ECE-R120)*	251 kW (341 hp)	275 kW (374 hp)	299 kW (407 hp)	326 kW (443 hp)
Intelligent Power Management* [Available] (FT4/Stage V Only)	26 additional engine kilowatts (35 hp) at 2,100 rpm (rated speed)			
PTO torque rise	40%			
Engine power bulge*	10%			8%
ENGINE				
Manufacturer				
FT4/Stage V	John Deere PowerTech™ PVS 9.0L		John Deere PowerTech™ PSS 9.0L	
Tier 3/Stage IIIa	John Deere PowerTech™ 9.0L			
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	
Tier 3/Stage IIIa	Dual turbochargers, variable geometry turbo with fixed geometry turbo in series			
Filter, engine air	Dual stage			
Displacement	9.0L (549 cu in)			
Bore and stroke	118 mm (4.66 in) x 136 mm (5.35 in)			
Compression ratio	16.0:1			
Lubrication	Full-pressure, full-flow filtration with bypass			
Filter, oil	Replaceable cartridge style oil filter			
TRANSMISSIONS				
e23 PowerShift 40K, 40 km/h (26 mph) with Efficiency Manager™	Standard			
Infinitely Variable Transmission (IVT™) 40 km/h (26 mph)	Available			NA
REAR AXLES				
	Flange axle			
Tread spacing	1930.4 mm (76 in), 2032 mm (80 in), 2235.2 mm (88 in), 3048 mm (120 in)			
Drive type	Positive			
Track width	457 mm (18 in), 610mm (24 in), 762 mm (30 in)			
Midrollers	Polyurethane			
FRONT AXLE				
1700 Series MFWD - tread spacing	1930.4 mm (76 in), 2032 mm (80 in), 2235.2 mm (88 in), 3048 mm (120 in)			
Front undercarriage pivot	± 7° for 1930.4 mm (76 in), 2032 mm (80 in), 2235.2 mm (88 in), ± 10° for 3048 mm (120 in)			
Drive type	Positive			
Track width	457 mm (18 in), 610mm (24 in)			
Midrollers	Polyurethane			
STEERING				
	Tilt & telescope steering with memory function			
Hydraulic power steering w/ electronic back-up pump	Standard			
DIFFERENTIAL LOCK				
	Tilt & telescope steering with memory function			
1700 Series MFWD	Full-locking electrohydraulic (actuated at same time as rear diff-lock)			
Rear axle	Full-locking electrohydraulic			
HYDRAULIC SYSTEM				
	Closed-center, pressure/flow compensated system with load sensing			
Rear selective control valves with 1/2 in ISO couplers	Standard: 4; Available: 5 - 6			
Rear selective control valves with 3/4 in and 1/2 in ISO couplers	Available: 5 (SCV 1: 3/4 in coupler, SCV 2-5: 1/2 in couplers)			
Main pump, axial piston (displacement)	Standard: 85cc, Available: dual pump (85cc plus 35cc)			
Maximum pressure	2,958 psi (20,400 ± 300 kPa)			
Rated flow, single pump 85cc	227 L/min (60 gpm)			
Rated flow, dual pump 85cc plus 35cc	321 L/min (85 gpm)			
Available flow at a single Rear SCV	132 L/min (35 gpm) 1/2 in couplers, 159 L/min (42 gpm) 3/4 in coupler			
3-POINT HITCH - REAR				
	Lift capacity per OECD: 24 inch / 610 mm behind the coupler, Electrohydraulic sensing			
Category 4N/3 with Quik-Coupler and sway blocks	6894 kg (15,200 lb)			
Category 4N/3 with Quik-Coupler and sway blocks	9072 kg (20,000 lb)			

Specifications and design subject to change without notice. Pre-production models shown. *John Deere Standard RES10080, SAE Standards J1995. **Base tractor configuration on level ground, with specified tires groups above at mfg recommendation for tire pressure. erpm, are load dependent. †PTO power for IVT models. Does not include available equipment losses. Nominal data is metric. Standard data is converted from metric data. Use metric for all calculations.

MODEL	8RX 310	8RX 340	8RX 370	8RX 410
REAR POWER TAKE OFF (PTO)	Independent, electrohydraulic switched via oil-cooled multi disk clutch			
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			NA
45 mm (1-3/4 in), 20-spline, 1,000-rpm / 1,000E RPM	Available			
PTO speed @ engine RPM	(1000 PTO rpm @ 2000 engine rpm, 1000 ECO PTO @ 1594 engine rpm, and 540 PTO rpm @ 1814 engine rpm for IVT) (1000 PTO rpm @ 1995 engine rpm, 1000 ECO PTO @ 1590 engine rpm, and 540 PTO rpm @ 1810 engine rpm for e23 PST)			
BRAKES				
Description	Power, dual disc			
CAPACITIES				
Fuel tank	851 L (225 gal)			
DEF tank (FT4/Stage V Only)	37.2 L (9.8 gal)			
WHEELBASE				
MFWD	3235 mm (127.36 in)			
AVERAGE STANDARD WEIGHT				
e23, 24in front, 30in rear, 88in spacing, dual pumps, 5 SCVs, PTO, CAT4 hitch, HD drawbar, shipping fuel	18900 kg (41,600 lb)			
IVT, 18in front, 18in rear, 120in spacing, dual pumps, 5 SCVs, PTO, CAT4 hitch, HD drawbar, shipping fuel	19500 kg (43,000 lb)			
e23, 24in front, 24in rear, 120in spacing, dual pumps, 5 SCVs, PTO, CAT4 hitch, HD drawbar, shipping fuel	19600 kg (43,300 lb)			



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