

## 8R/8RT Series Tractors Specifications

	8320RT	8345RT	8370RT
<b>POWER</b>			
Rated PTO power (hp SAE) at 2,100 engine rpm	264 hp (196 kW)	286 hp (213 kW)	308 hp (229 kW)
Rated Engine power PS (hp ISO) at 2100 engine rpm (97/68EC)	320 hp (235 kW)	345 hp (254 kW)	370 hp (272 kW)
Max Engine power PS (hp ISO) at 1900 engine rpm (97/68EC)	352 hp (259 kW)	380 hp (279 kW)	407 hp (299 kW)
Intelligent Power Management* (Available)	35 additional engine horsepower at 2,100 rpm (rated speed)		
PTO torque rise	40%		39%
PTO power bulge		10%	
<b>TRANSMISSIONS</b>			
John Deere AutoPow™ IVT™ 26 mph (42 km/h)	Standard (42 km/h at 1,550 ECO erpm)**		
e23 Transmission 40K, 26 mph (40 km/h)	Available		
<b>FINAL DRIVES</b>			
Description	Inboard planetary		
<b>REAR AXLE</b>			
Tread spacing	72 to 120 inch (1,829 to 3,048 mm) standard, 112 to 160 inch (2,845 to 4,064 mm) optional		
Track type	Camoplast Durabuilt 3500 and 5500 Series Track Belts		
Track width	25 in. (635 mm)		
Optional track widths	16 in. (406 mm), 18 in. (457 mm), 24 in. (610 mm), 30 in. (762 mm)		
Drive wheel total width	15 in. (381 mm) required with 16-, 18-, and 24-in. (406, 457, and 610 mm) tracks; 24 in. (610 mm) optional with 25-, and 30-in. (635, and 762 mm) tracks		
Mid-rollers total width	15 in. (381 mm) required with 16-, 18-, and 24-in. (406, 457, and 610 mm) tracks; 24 in. (610 mm) required with 25-, and 30-in. (635, and 762 mm) tracks		
Poly mid rollers	Available : with 16 in., 18 in., and 24 in. tracks		
<b>GROUND CONTACT AREA</b>			
16 in. (406 mm)	3,168 sq. in. (2.04 sq. m)		
18 in. (457 mm)	3,565 sq. in. (2.30 sq. m)		
24 in. (609 mm)	4,753 sq. in. (3.07 sq. m)		
25 in. (635 mm)	4,951 sq. in. (3.19 sq. m)		
30 in. (762 mm)	5,941 sq. in. (3.83 sq. m)		
<b>STATIC GROUND PRESSURE, for 36,000 lb. (16 067 kg) vehicle</b>			
16 in. (406 mm)	11.36 psi (78.59 kPa)		
18 in. (457 mm)	10.1 psi (69.87 kPa)		
24 in. (609 mm)	7.57 psi (52.40 kPa)		
25 in. (635 mm)	7.27 psi (50.30 kPa)		
30 in. (762 mm)	6.06 psi (41.91 kPa)		
<b>HYDRAULIC SYSTEM</b>			
Description	Closed-center, pressure and flow compensated		
Selective control valves (SCVs) with ½ in. ISO couplers	4 Standard, 5 and 6 available		
Selective control valves (SCVs) with ¾ inch and ½ in. ISO couplers	Available (SCV 1 : ¾ in. coupler, SCV 2-5 : ½ in. couplers)		
Main pump, axial piston (displacement)	85 cc standard		
Maximum pressure	2,958 +/- 4.4 psi (20,400 +/- 300 kPa)		
Rated flow, 85 cc pump	60 U.S. gpm (227.1 L/min)		
Available flow at a single SCV	35 U.S. gpm (132 L/min) ½ in. couplers, 40.5 U.S. gpm (153 L/min) ¾ in. coupler		
<b>3-POINT HITCH, REAR</b>			
Description	Lower draft shaft bending bar, electrohydraulic sensing		
Category 4N/3™ with Quik-Coupler	Available: 15,000 lb. (6,803 kg) - Maximum Lift Capacity 21,102 lb. (9,572 kg)		
Category 4N/3™ with Quik-Coupler	Standard: 20,000 lb. (9,702 kg) - Maximum Lift Capacity 28,136 lb (12,762 kg)		
<b>REAR POWER TAKE-OFF (PTO), INDEPENDENT</b>			
1 ¾ in. (44 mm) 20-spline, 1,000 rpm	Standard		
PTO speed at engine rpm	1,000 PTO rpm at 2,000 engine rpm		
<b>STEERING</b>			
Description	Speed-sensitive, electrohydrostatic, differential		
<b>BRAKES</b>			
Description	Power, hydraulic wet-disk with retractors -powered back-up		
<b>WHEELBASE</b>			
Length	99 in. (2515 mm)		
<b>AVERAGE STANDARD WEIGHT</b>			
With IVT, full fuel, 25-in. (635 mm) tracks, no weights	36,549 lb. (16,578 kg)		
Specifications and design subject to change without notice. *Activates during mobile rear PTO applications and transport speeds. **Base tractor configuration on level ground. ERPMs are load dependant. *** Category 4N/3 with Hook Style Ends- 120 MM Axle (Sway Blocks or Deluxe Stabilizers)			

<b>8RT SERIES, COMMON SPECIFICATIONS</b>	
<b>ENGINE</b>	
Description	John Deere PowerTech™ PSS 9.0 L Diesel, in-line, 6-cylinder, wet-sleeve with 4 valve-in-head
Rated speed	2,100 rpm
Aspiration	Dual series turbocharger with fixed geometry first stage, variable geometry second stage, air-to-air aftercooling and cooled exhaust gas recirculation
Filter, engine air	Dual-stage with engine cooling fan aspiration
Displacement	549 cu. in. (9.0 L)
Bore and stroke	4.66 in. (118 mm) x 5.35 in. (136 mm)
Compression ratio	16.0:1
Lubrication	Full-pressure, full-flow filtration with bypass
Filter, oil	Replaceable cartridge-style oil filter
<b>FUEL SYSTEM</b>	
Description	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 with water indication sensor and drain
Filter, secondary	2 micron spin-on element
Fuel-tank capacity	200 U.S. gal (758 L)
Required fuel type	Ultralow sulfur diesel (B20 diesel compatible)
DEF tank capacity	6.7 U.S. gal (25.3L)
<b>ELECTRICAL SYSTEM</b>	
Description	Two batteries in parallel
Alternator/battery	Standard 200 amps/12 Volt
Total cold-cranking amps	1850
<b>STEERING</b>	
Speed-sensitive, hydrostatic, differential	Standard
<b>CONNECTIONS</b>	
AutoTrac™ Ready	Standard
JDLink™	Available JDLink™ Select & Ultimate and Ethernet harnesses
ServiceADVISOR™ Remote	Requires activated JDLink service
CommandCenter™ Display video with 4600 Processor	Video capable; four video inputs (Tyco Connector PN 776536-1) for camera with PAL or NTSC signal (camera and extension harness available through John Deere Parts)

