8R SERIES
WHEEL TRACTORS

JOHN DEERE

MAKING THE RIGHT CHOICE

NOTHING RUNS LIKE A DEERE

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8R SERIES
WHEEL TRACTORS

POWER TO DO MORE
High power density coupled with a high horsepower rating (up to 450 max engine hp with IPM) gives you speed and efficiency. Extensive hitch and PTO options also make the 8R series tractors extremely versatile.

THE POWER OF CHOICE
The 8R series tractors offer a range of transmission options to tackle the challenges of your operations. We offer you the flexibility to choose the right transmission to fit your needs: e23 transmission is engineered to deliver maximum efficiency for arable farming. Alternatively choose full PowerShift (16/5) or the intuitive functionality of AutoPowr infinitely variable transmission.

PRECISION AGRICULTURE
The StarFire 6000 receivers come with an improved signal range. The all-new SF3 signal features in-season repeatability at ± 3 cm accuracy.

EASY TO USE
Generation 4 CommandCenter with ten inch touchscreen.

PERFORMANCE
Efficient 9.0 L engine with high power outputs, technology for a high transient engine response.

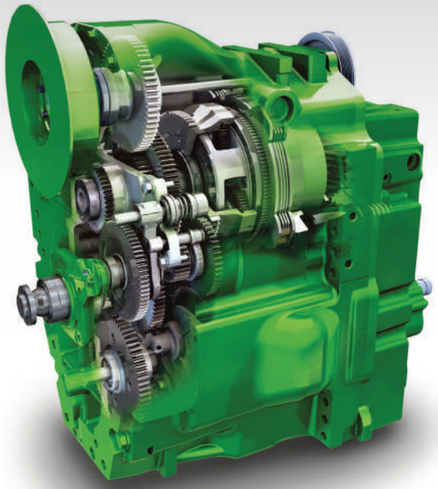
RIDE AND DRIVE QUALITY
Independent front-axle suspension (ILS) plus ActiveSeat or cab suspension and ActiveCommand Steering (ACS) system.

e23 INDUSTRY LEADING TECHNOLOGY
e23 combines all the benefits of a mechanical transmission with the ease of use of an AutoPowr. Ten fully powershiftable gears in the main working range (5 - 16 km/h) for maximum pulling power on the field at the right rpm.

16-SPEED POWERSHIFT
The 16-speed PowerShift transmission is available for the smaller models up to the 8320R with 16 forward and five reverse speeds.

COMFORT
Quietest cab in the industry (69 dB (A)).

STRONG HYDRAULICS
Six rear SCVs, enough lift capacity for all jobs plus 90 L oil take-out capacity.

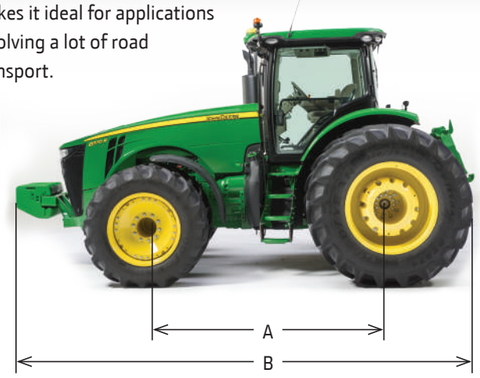


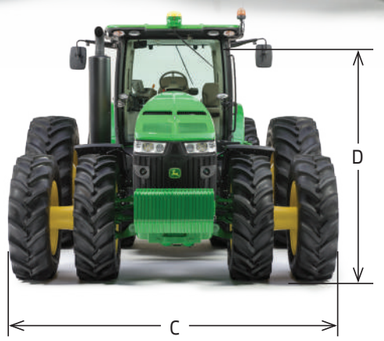
AUTOPOWR: OUTSTANDING EFFICIENCY
The exclusive John Deere built AutoPowr transmission with four ranges always ensures a maximum mechanical power transfer in all speed ranges. With 55 - 100% of mechanical power flow, the AutoPowr transmission boosts the efficiency of the tractor and gets more power to the ground.

40 DEGREE SWIVEL SEAT
Visibility and comfort is better than ever, especially when you rotate the seat 40 degrees for a nearly unobstructed view of your attachments. You will feel the difference after a day's work.

PERFECTLY BALANCED
The Group 48 and 49 tyres provide excellent power transfer with a perfect weight split.

DIMENSIONS
The narrow format of the 8R makes it ideal for applications involving a lot of road transport.





A | WHEELBASE
3 050 mm

B | OVERALL LENGTH
6 820 mm maximum length, measured from rear hitch to front hitch

C | WIDTH
2 550 mm with 710/70R42 tyres and narrowest tread setting

D | TOTAL HEIGHT
3 667 mm (top of cab)

MORE TRACTION
Better traction means increased productivity. The structural chassis of the 8R series has been designed for unprecedented power density. With a robust chassis, Independent Link Suspension (ILS) providing extra drawbar pull, and a long wheelbase for additional traction and stability, John Deere 8R tractors allow you to do more, even in tough conditions.

PERFORMANCE	UPTIME	COST OF OPERATION
• Powerful PowerTech™ 13.5 L Tier II engine for more hectares per hour • e18™ transmission offers the widest gear selection on the market with automation capabilities to improve operator productivity • Up to 435 L/min of hydraulic flow at lower engine rpm, optimising requirements for large implements and planters • Large Group 48 and 49 rear wheel options, maximising power transfer to the ground	• CommandARM™ swiveling with seat for ultimate comfort for increased hours in the field • Mounted 4 100/4 600 CommandCenter display on CommandARM™ for quick and easy tractor adjustment and access to machine data • ActiveSeat™ option for enhanced operator experience with 40° of swivel • Primary functions ergonomically placed for easy, simple touch controls when working extended hours in the field	• Save more fuel, the e23™ transmission with Efficiency Manager auto shift up and down controlling throttle to reduce fuel • Eco mode on e23™ and IVT™ transmissions reduces engine speed and improves engine efficiency while in transport/haulage applications • AutoTrac™ and JDLink™ which means you can improve efficiency while receiving support on the go, reducing cost • Economy 1 000 rpm PTO – electronically controlled to operate engine @ 1 600 rpm, reducing fuel spend

BigDoor23450

8R WHEEL TRACTOR SPECIFICATIONS

MODEL	8245R	8270R	8295R	8320R	8345R	8370R
ENGINE PERFORMANCE						
Rated engine power (97/68 EC), hp (kW)	245 (180)	270 (199)	295 (217)	320 (235)	345 (254)	370 (272)
Max engine power at 1 900 rpm (97/68 EC), hp (kW)	270 (198)	297 (218)	324 (239)	352 (259)	380 (279)	407 (299)
Rated engine power (ECE-R24), hp (kW)*	235 (173)*	259 (191)*	283 (208)*	307 (226)*	331 (244)*	355 (261)*
Max engine power at 1 900 rpm (EC), hp (kW)	259 (190)	285 (210)	312 (229)	338 (249)	364 (268)	391 (287)
Engine peak torque @ 1 600 rpm (Nm)	1 147	1 264	1 381	1 498	1 615	1 732
ENGINE						
Manufacturer	John Deere Power Systems					
Type	John Deere Power Tech 9.0 L, diesel, in-line, 6-cylinder, wet sleeve cylinder liners with four valves-in-head					
Rated engine speed, rpm	2 100					
Aspiration	Turbo charged, air-to-air aftercooling system					
Fuel injection	Electronically controlled, high pressure common rail with electric fuel transfer pump					
TRANSMISSION OPTIONS						
16/5-PowerShift with Automatic PowerShift (APS)	Base				N/A	
16 Forward/5 reverse gears, right hand reverser	42 km/h @ 2 160 rpm with 205 cm tyres, 42 km/h @ 2 050 rpm with 215 cm tyres				N/A	
e23 transmission with Efficiency Manager	Optional				Base	
23 Forward/11 reverse gears, 40 km/h, left and right hand reverser	42 km/h @ 1 480 rpm with Group 48 tyres, 42 km/h @ 1 410 rpm with Group 49 tyres					
AutoPowr (IVT)	Optional					
Variable, 0.05 - 42 km/h, left and right hand reverser	42 km/h @ 1 430 rpm with Group 49 tyres, 42 km/h @ 1 360 rpm with Group 49 tyres					
AXLES						
Rear axle						
120 x 3 010 mm diameter shaft with double taper wheel hubs	Base					
120 x 3 010 mm diameter double flat axle, wheel hubs	Optional					
Flanged axle, 335 mm bolt circle	Optional					
Rear wheel equipment (diameter)	205 cm (Group 48) or 215 cm (Group 49) diameter tyres available as single or dual wheel configuration – see dealer for tyre size selection and limitations					
Front axles						
ILS – Independent Link Suspension axles	Base					
1500 Series MFWD axle	Optional					
1300 Series MFWD axle	Optional			N/A		
STEERING AND HYDRAULIC SYSTEM						
Steering						
Steering type	Tilt-telescope steering console with memory function					
Hydraulic power steering with electric pump back-up	Base – 406 mm steering wheel diameter with 18.9 : 1 ratio and 4.3 turns from lock to lock Turns lock to lock: 1.8					
Hydraulics						
Type	Closed-centre, pressure and flow-compensated system (PFC) with load sensing					
Main pump, axial piston (displacement), cm^3	Base: 85 cm^3 and Optional: dual pump 85 cm^3 plus 35 cm^3					
Maximum pressure	204 bar/300 kPa					
Rated flow, 85 cm^3 pump, L/min (Base)	227					
Rated flow, dual pump 85 cm^3 plus 35 cm^3, L/min (Optional)	321					
Rear selective control valves with 1/2 inch ISO couplers	4/5/6					
Rear selective control valves with 3/4 inch and 1/2 inch ISO couplers	Max five available (SCV 1: 3/4 inch coupler, SCV 2 - 5: 1/2 inch couplers)					
Power beyond couplers	Optional: 1/2 or 3/4 inch couplers					
REAR HITCH						
Type	Electro-hydraulic lower link sensing; load and depth control, infinite mix, float					
Category	3/3N or 4N/3			4N/3		
Coupler system	Walterscheid hook style ends					
Lift capacity through full range (at 610 mm behind coupler jaw)	Base: 9 072 kg, Cat 4N/3 – requires Group 48 or 49 tyres					
	Optional: 8 391 kg, Cat 3/3N – requires Group 48 or 49 tyres			Optional: 6 803 kg, Cat 4N/3N – requires Group 48 or 49 tyres		
	Optional: 6 350 kg, Cat 3/3N – requires Group 47 tyres					
	Base: 11 933 kg, Cat 4N/3 – requires Group 48 or 49 tyres					
Maximum lift capacity (measured at the coupler jaw)	Optional: 11 214 kg, Cat 3/3N – requires Group 48 or 49 tyres			Optional: 8 984 kg, Cat 4N/3N – requires Group 48 or 49 tyres		
	Optional: 8 679 kg, Cat 3/3N – requires Group 47 tyres					
Centre link	Optional: Rear hydraulic centre link – Cat 4 (120 mm)					

MODEL	8245R	8270R	8295R	8320R	8345R	8370R
DRAWBAR AND TRAILER HITCH						
Swinging drawbar	Cat 3, Cat 4 or Cat 4 HD with 50 mm pin					
Maximum vertical load	1 837 kg with Cat 3					
	2 245 kg with Cat 4, not recommended with 540 rpm PTO					
	Base: 4 990 kg with Cat 4 HD, not recommended with 540 rpm PTO					
REAR PTO						
Type	Independent, electro-hydraulic switched, oil-cooled multi-disk clutch					
Stub 1 – 45 mm diameter, 20-spline, 1 000 rpm	Base: 1 000 PTO rpm @ 1 995 rated engine rpm speed					
Stub 1 – 1 000 rpm (20-spline) capable of 35 mm 540 rpm (6-spline)/1 000 rpm (21-spline) PTO	Optional: 540/1 000 rpm PTO @ 1 810/1 950 rated engine rpm					
CAB AND TECHNOLOGY						
Specifications	CommandView III cab, LH panorama door, automatic air-conditioning and Generation 4 CommandCenter display					
Suspension system	Optional – hydraulic cab suspension plus (HCS Plus) or John Deere exclusive ActiveSeat					
Display	Standard Generation 4 CommandCenter 4 100 processor with seven inch or optional 4 600 processor with ten inch touchscreen display					
AutoTrac Ready	Base					
GreenStar Ready	Base					
JDLINK Ready	Base					
ISOBUS implement connection	Base					
CAPACITIES						
Fuel tank, L – with Group 48 tyres	615					
Fuel tank, L – with 215 cm Group 49 tyres	675					
Cooling system, L	32.6					
Engine oil capacity, L	27.5					
Transmission, differential, hydraulic system, L	165					
DIMENSIONS AND WEIGHTS						
Wheelbase, mm	3 050					
Overall length, mm						
Maximum length, measured from rear hitch to front hitch	6 636					
Overall height, mm						
Maximum height, measured with Group 49 rear tyres	3 677					
Overall width, mm						
Overall width	3 012					
Flange to flange width (flanged axle)	1 892					
Rear axle, end to end	3 012					
Ground clearance, mm						
Front axle clearance	590					
Drawbar clearance	376					
Bottom rear axle	762					
Turning radius						
with 600/70R30 Group 43 tyres @ 78" spacing, ILS, m	5.8					
with 600/70R30 Group 43 tyres @ 74.1" spacing ILS, m (~2.5 m overall width)	6.1					
with 650/60R34 Group 44 tyres @ 82" spacing ILS, m (~2.73 m overall width)	6.3					
Weights						
Average shipping weight, kg	13 000					
Average payload capacity, kg	5 000					
Maximum permissible weight, kg	18 000					

* Reported test result with all drives (engine fan, auxiliary drives, transmission couplers fitted on engine)