

5R Series

59/66/74 kW (97/68EC) Premium Tractors





Premium power, comfort and versatility in a mid-size, full-frame tractor

The new 5R Series prove the old saying true – ‘less is more’.

Just think about your mobile phone for a moment. 10 years ago all you could do was phone or text. Now it’s a camera, music player, address book, diary, internet browser and email reader all in one. But it’s lighter and smaller too.

John Deere has taken that same design approach to the all-new 5R Series tractors. Now you can enjoy the premium big tractor experience in a smaller, mid-size package. Building on the proven reputation of the 5020 Series, the new 5R Series gives you even more. More power ... more comfort ... more control ... and even greater versatility.

Premium comfort: more refinement, more convenience ... with excellent all-round visibility

As soon as you step inside the 5R cab, everything about it says premium quality. It's light, very well equipped and surprisingly spacious.

Sit back in the super deluxe air suspension seat and feel just how comfortable it is – just like your favourite armchair at home. Then swing the steering wheel towards you and set the height – it takes just a few seconds to obtain your optimum position. The instrument panel will feel familiar too. That's because we've styled it to feel like your car. All the controls – ventilation, gear shift and switches are close to hand. Their position will soon become instinctive so you won't need to take your eye off what you're doing to make a change.

It's the perfect working environment – comfortable, quiet and stress-free.



The Premium Cab Advantage

These are the four factors you should use to benchmark our cab against the competition.

Seat comfort

There was a time when people thought a comfortable seat was a luxury. Nowadays it's essential if you want to look after your back. Our super deluxe air seat insulates you from sudden jolts and continuous vibration.

All-round visibility

Apart from excellent forward and side visibility (even with a loader fitted) you'll notice there are no C pillars to the rear of our cab. Instead we have rounded glass panels for a clear, unobstructed view.

You can also specify an optional glass roof hatch which provides perfect visibility for safe and accurate loader work. Another useful option is a low profile cab. With clearance of just 2.5 m it's ideal if you need to get into tight spaces.

Quietness

Noise is one of the biggest causes of stress. Thankfully you'll find the 5R Series cab a very relaxing space. Just 74 dB(A) even under full load makes it one of the quietest cabs in its class.

Ergonomic design

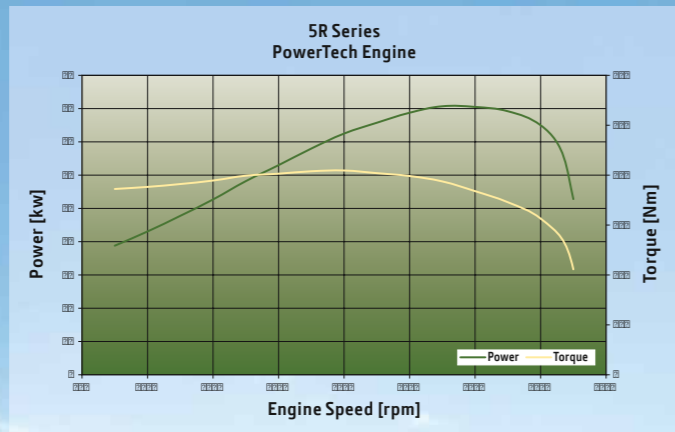
You'll find all the right controls in the right place so there's no unnecessary stretching. All the switches are colour coded and grouped by function.



Premium power: more power, more torque ... without sacrificing fuel economy

The engine is the heart of any tractor and John Deere engines enjoy a reputation for being the best money can buy. Why? Firstly, we build all our tractor engines at our plant in Saran, France with one use only – agriculture. Secondly, they are built to exacting standards. And finally, our frame design means the engine doesn't have to perform a structural role so it's lighter and less stressed for a longer life.

5R engines use the latest high pressure, common rail fuel injection system and electronic control. Apart from meeting the Tier III emission standard, they give you 7% extra power for power hungry tasks like ploughing and high start-off torque for pulling heavy loads through tough spots without shifting down.



Constant power between 1750 and 2300 rpm lets you throttle back and work at lower rpm without power reduction. You save fuel, without having to slow down your work.

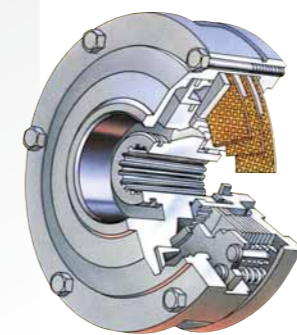


Premium control: more choice, more precision ... with automatic shifting in gear ranges

Both engine and transmission are built by John Deere so they are perfectly matched for optimum power delivery. That means the drivetrain doesn't soak up unnecessary power and you get optimum traction with optimum fuel efficiency.

There's a choice of two transmissions, both offering four gear ranges. AutoQuad Plus is the premium choice with automatic, clutchless shifting between gears. You can set the change points you want between 1700 and 2200 rpm so you're always in the right gear for the right job. It's particularly useful when you hit hard ground during ploughing as it automatically chooses the optimum gear or when pulling up hill during road transport.

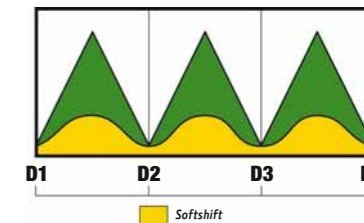
Both transmissions also feature cruise control for applications where constant speed is essential and underdrive for speeds as low as 1.5 km/hr.



Long Life Clutch
The 5R features the PermaClutch II electro-hydraulic multi-disc clutch. This tried and tested design has a well-proven reputation for its smoothness and long life. It's particularly suited for continuous front loader operations or other applications which require multiple direction changes.



Smooth Range Shifting
Changing between ranges is just as smooth as changing between gears. Both transmissions features speed matching which automatically chooses the correct gear in the next range based on the tractor's ground speed.



Smooth Gear Shifting
With Softshift you'll enjoy smooth, gear changes. So no more sudden jolts when pulling trailers or using the loader. Apart from less wear and tear on the whole powertrain, it's easier on your back as well.

	AutoQuad Plus	PowerQuad Plus
Total gears	16	16
Ranges	✓	✓
Gears within each range	4	4
Automatic shifting in gear ranges	Yes	No
Speed matching between ranges	Yes	Yes
Softshifting between gears	Yes	Yes
Cruise control	Yes	Yes
Underdrive	Option	Option
Electronic left hand reverser	Yes	Yes
De-clutch button	Yes	Yes

Premium versatility: more lift capacity, fully integrated controls ... with excellent loader capability



A fully integrated front hitch and PTO, ideal for front mowers or seed carts.



Integrated implement control and high lift capacity

At 42 kN the 5R Series punches well above its weight when it comes to lift capacity. When you add to this fully integrated implement control – front and rear hitches – front and rear PTO – you can handle heavy, power-hungry combinations like a front roller and power harrow with ease.

The Headland Management System is also fully programmable for all your important functions – engaging MFWD, differential lock, hitch functions and PTO – so headland turns are smooth and stress free, leaving you time to concentrate on other operations.

Proven frame design and powerful loader hydraulics

The frame design makes hooking up a wide choice of loaders straightforward. Unique to John Deere, it also absorbs the stress and strain the engine would normally take in other frameless tractors. This means the engine can be lighter which is why the 5R Series has such a high power-to-weight ratio.

The pressure compensated hydraulic system sets the benchmark in this horsepower range. You'll not be short of hydraulic power when you need it, even at low engine rpm.

Compatible loaders

Model 533	Model 583	Model 633
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Guidance you can grow with

If you're completing tasks where accuracy is essential, our optional guidance solutions make the job easier for you and reduce your input costs.

You can get started with our manual guidance package. All you need comes in one single box: The StarFire 300 receiver takes just a few minutes to mount and gives you EGNOS signal accuracy for your field position. The GreenStar Lightbar then indicates the steering direction for you. Now reducing skips and overlaps is as easy as A – B – C, even in grassland applications where no guidance marks are available.

Or you can step up to automatic guidance. The AutoTrac Universal 200 Steering Kit is the multi-coloured guidance solution that you can easily move between all your makes and models. With the StarFire iTC you choose between different signal accuracies to match your needs. Bringing high accuracy on return passes the ATU 200 reduces overlap by up to 10% and it speeds up field passes and headland turns. This saves you time, fuel and labour costs when you're seeding, fertilising or mowing.



Minimal downtime Maximum uptime

We've worked hard to minimise the time you spend on service and maintenance. 'Speed and ease' were the two factors our designers focused on.

Even with a loader fitted you can tilt up the bonnet with one hand to carry out almost all your regular maintenance checks. Everything else is easy to access with no special tools required so you can be done and out of the yard in no time at all.

Air

The engine air filter can be removed without any tools. The cab air filters are conveniently placed inside the roof hatch.

Oil

The oil level can be easily checked through the side panel.

Water

Coolant levels can be viewed without removing the cap and the windscreen washer reservoir is conveniently placed at the back of the cab.

Fuel

The fuel filler is on the left hand side steps and has a drain so you can easily remove water and sediment.

Lubrication & Hydraulics

Greasing points are easy to reach and the hydraulic fluid level can be checked at a sight glass at the rear.

Electrics

The battery is up front for easy access and the automotive style fuses are located in the cab under the storage box.



5R Series Specifications

ENGINE PERFORMANCE	5080R	5090R	5100R
Rated Power (97/68 EC)	59 kW (80 hp)	66 kW (90 hp)	74 kW (100 hp)
Maximum Power (97/68 EC)	64 kW (87 hp)	72 kW (98 hp)	79 kW (108 hp)
Rated Power (ECE-R24)	56 kW (76 hp)	63 kW (86 hp)	71 kW (96 hp)
Maximum Power (ECE-R24)	61 kW (83 hp)	69 kW (94 hp)	77 kW (104 hp)
Max. torque (97/68/EC)	334	376	416
Torque Reserve (97/68/EC)	30%	30%	30%
Constant Power Range	550 rpm	550 rpm	550 rpm
ENGINE SPECIFICATIONS			
Rated Speed	2300 rpm		
Type	PowerTech Plus, CommonRail, 2 Valve, Stage III A Emissions Certified		
Aspiration	Turbocharger with Active Charge Aircooler		
Cylinder and Displacement	4/4525		
Cooling Fan Drive	Temperature controlled viscous fan		
Fuel Injection System & Control:	High Pressure CommonRail		
Fuel Tank Capacity	130 Litre (Optional 150 Litre)		
Cruise Control	Base equipment		
CLUTCH			
Oil-cooled PermaClutch II, 225 mm diameter discs	Base equipment		
TRANSMISSION OPTIONS			
16/16 PowerQuad Plus 3.3 – 40 km/h			
16/16 PowerQuad Plus w. 16/16 Underdrive 1.5 – 40 km/h			
16/16 AutoQuad Plus 3.3 – 40 km/h			
16/16 AutoQuad Plus w. 16/16 Underdrive 1.5 – 40 km/h			
1 Lever Shifting	All transmissions		
Automatic Shift Point Control	With AutoQuad transmission		
De-clutch Button	Base equipment all transmissions		
Softshift	Base equipment all transmissions		
Speed Matching	Base equipment all transmissions		
PTO-REAR			
PTO Clutch	Electro-hydraulically operated oil-cooled multi-disc		
Engine rpm at rated PTO speed:			
540/540E PTO with 6 Spline Shaft	2097/1701 rpm		
540/540E/1000 PTO with Reversible 6 & 21 Spline Shaft	2097/1697/2074 rpm		
PTO Remote Control	Base equipment on LH fender (optional on RH fender)		
PTO-FRONT			
Type	Electro-hydraulically operated oil-cooled multi-disc clutch		
Speed	1000		
Rotation	Counterclockwise		
HYDRAULIC SYSTEM			
Maximum Flow	56 or 65 Litre/min with 200 bar		
Type	Load sensing with constant flow pump (PC=pressure compensated)		
Maximum SCV's	3		
Mid Mounted Couplers	Option		
3-POINT HITCH – Rear			
Sensing Type	Electronic lower link		
Sensing Modes	Load & depth control, infinite mix, float		
Control Modes	Height limiter, rate of drop, quick raise&pull-in; hitch dampening		
Maximum Lift Capacity at Hooks	42 kN		
Hitch Remote Control	Base equipment on lh fender (optional on rh fender)		

FRONT HITCH		
Max lift capacity	29 kN	
AXLES		
Engagement 4WD	Electro-hydraulically operated, oil cooled clutch	
Engagement Front Differential Lock	Automatic self-locking under full load	
Engagement Rear Differential Lock	Electro-hydraulically operated, oil-cooled multi-disc	
BRAKES		
Foot Brake	Oil-cooled discs, self-equalizing, self-adjusting	
Park Lock	base equipment	
4WD Braking	Automatic 4WD engagement	
CAB		
Type	Tiltable cab; 310° all-round vision; telescoping and tiltable steering column/wheel; 2 storage compartments; opt. FieldOffice	
Sound Level under Full Load Service Display	74 dB(A) Tiltable cab (Standard and Low Profile) Dual Gauge II Premium panel and additional info-display in rh B-post	
Storage Important Options	Storage compartments with cup holders Loader packages with mid-mounted couplers and joystick; AC; Low Profile cab; tiltable windshield; 4 working lights front and 4 rear; roof hatch with glass; Electronic operator assistance package HMS II; Field Office	

CHASSIS		
Structure	Full steel frame	
Engine Mounting	4 vibration absorbing bearings	

DIMENSIONS AND WEIGHTS		
Wheelbase	2250	
Overall Height Standard Cab / Low Profile Cab	2595/2540	
With Tyre Size	16.9R34 and 13.6R24	
Centere of Rear Axle to Top of Cab Roof	1850	
Ground Clearance 4WD, Centre	390	
Overall Width (Tread 1712 mm)	2175	
Overall Length with Base Weight	3950	
Minimum Shipping Weight	3700 kg	
Maximum Permissible Gross weight at 40 km/h (kg)	6600 kg	

John Deere Loaders Compatible with the 5R Series		
Model 533		
Model 583		
Model 633		

SERVICE INTERVALS AND QUANTITIES		
Engine Oil	500 h, 19.5 L	
Engine Coolant	1500 h, 28 L	
Transmission, Final Drive and Hydraulic Oil	1500 h, 61/71 L	

Professional and friendly support you can depend on

Buying a 5R Series is just the first step in the whole John Deere ownership experience. We work hard to make sure our customers are satisfied and come back to us year after year, that's why you'll find we're always there when you need us.

In field service from our factory trained technicians is just one of the many services that make up the whole John Deere ownership experience. ServiceADVISOR computerised diagnostics provides high first-time, first-fix rates and when you add our comprehensive parts support, John Deere service is second to none. Our European Parts Distribution Centre stocks 168,000 different parts lines with 99% fulfilment of emergency orders.

Genuine John Deere parts are also designed to last longer. Take our Plus-50 oil. When it's used in combination with John Deere filters you can enjoy significantly longer intervals between oil changes.



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