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 eyes 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 vibrations.

**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.

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

Both engines and transmissions 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:

### AutoQuad Plus
- Total gears: 16
- Ranges:
  - Low
  - Hi
- Gears within each range: 4
- Automatic shifting in gear ranges: Yes
- Speed matching between ranges: Yes
- Cruise control: Yes
- Underdrive: Option
- Electronic left hand reverser: Yes
- De-clutch button: Yes

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

### Smooth Range Shifting

Smoothing changes between gears is just a set of control shifting between gears, without necesssary hydraulics. Just activate the electronic left hand reverser, then shift as normal. It will sense how hard you’re pushing and select the best gear automatically.

### Smooth Gear Shifting

With AutoQuad Plus, fast, smooth, accurate gear changes. So no sudden jolts when pulling heavy loads. As the torque transmitted is constant across the whole power range, it’s easier on your back as well.
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 PTOs – 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.

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.

<table>
<thead>
<tr>
<th>Compatible loaders</th>
<th>Model 533</th>
<th>Model 583</th>
<th>Model 633</th>
</tr>
</thead>
</table>

A fully integrated front hitch and PTO, ideal for front mowers or seed carts.
**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 water jacket reservoir is conveniently placed at the back of the cab.

**Fuel**
The fuel filter 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 night glass at the rear.

**Electrics**
The battery is up front for easy access and the automotive style fuse box is located inside the storage box.

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**5R Series Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>5080R</th>
<th>5090R</th>
<th>5100R</th>
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<tbody>
<tr>
<td><strong>Performance</strong></td>
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<tr>
<td>Engine rpm at rated PTO speed:</td>
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<tr>
<td>PTO-FRONT</td>
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<td>PTO-REAR</td>
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<tr>
<td>Softshift Base equipment all transmissions</td>
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<tr>
<td>De-clutch Button Base equipment all transmissions</td>
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<td>Automatic Shift Point Control With AutoQuad</td>
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<tr>
<td>1 Lever Shifting All transmissions</td>
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<td>16/16 AutoQuad Plus w. 16/16 Underdrive 1.5 – 40 km/h</td>
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<td>16/16 PowerQuad Plus w. 16/16 Underdrive 1.5 – 40 km/h</td>
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<tr>
<td>Cruise Control Base equipment</td>
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<td><strong>Hydraulics</strong></td>
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<td><strong>Hydraulic System</strong></td>
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<tr>
<td>Rotation Speed</td>
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<tr>
<td>Type</td>
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<tr>
<td>56 or 65 Litre/min with 200 bar</td>
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<tr>
<td><strong>Engine</strong></td>
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<td>Specifications</td>
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<tr>
<td>Type</td>
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<tr>
<td>PowerTech Plus, CommonRail, 2 Valve, Stage III A Emissions Certified</td>
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<tr>
<td><strong>Torque Reserve</strong></td>
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<td><strong>rated Power (97/68 EC)</strong></td>
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<td>56 kW (76 hp)</td>
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<td>63 kW (86 hp)</td>
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<td>59 kW (80 hp)</td>
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<tr>
<td>66 kW (90 hp)</td>
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<td>74 kW (100 hp)</td>
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<td><strong>maximum power (97/68 EC)</strong></td>
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<td>64 kW (87 hp)</td>
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<td>72 kW (98 hp)</td>
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<tr>
<td>79 kW (108 hp)</td>
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<tr>
<td><strong>maximum power (ECE-R24)</strong></td>
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<tr>
<td>74 kW (100 hp)</td>
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<td><strong>max lift capacity</strong></td>
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<tr>
<td>Front</td>
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<tr>
<td>Rear</td>
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<td>53 kN</td>
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<td><strong>Electronic operator assistance package HMS II</strong></td>
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<tr>
<td><strong>Sound Level under Full Load</strong></td>
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<tr>
<td>74 dB(A)</td>
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<tr>
<td><strong>Fuel</strong></td>
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<tr>
<td><strong>Fuel capacity</strong></td>
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<td>130 Litre (Optional 150 Litre)</td>
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<td><strong>Cylinders and Displacement</strong></td>
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<tr>
<td><strong>Aspiration</strong></td>
<td>Turbocharger with Active Charge Aircooler</td>
<td>Turbocharger with Active Charge Aircooler</td>
<td>Turbocharger with Active Charge Aircooler</td>
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<tr>
<td><strong>Type</strong></td>
<td>PowerTech Plus, CommonRail, 2 Valve, Stage III A Emissions Certified</td>
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<tr>
<td><strong>Cruise Control</strong></td>
<td>Base equipment</td>
<td>Base equipment</td>
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<td><strong>Park Lock</strong></td>
<td>Base equipment</td>
<td>Base equipment</td>
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<tr>
<td><strong>Foot Brake</strong></td>
<td>Oil-cooled discs, self-equalizing, self-adjusting</td>
<td>Oil-cooled discs, self-equalizing, self-adjusting</td>
<td>Oil-cooled discs, self-equalizing, self-adjusting</td>
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<tr>
<td><strong>Rear Axle</strong></td>
<td>Electro-hydraulically operated, oil-cooled multi-disc</td>
<td>Electro-hydraulically operated, oil-cooled multi-disc</td>
<td>Electro-hydraulically operated, oil-cooled multi-disc</td>
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<tr>
<td><strong>frame</strong></td>
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<tr>
<td><strong>Structure</strong></td>
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<td>1500 h, 61/71 L</td>
<td>1500 h, 61/71 L</td>
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<td><strong>Engine Coolant</strong></td>
<td>1500 h, 28 L</td>
<td>1500 h, 28 L</td>
<td>1500 h, 28 L</td>
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<tr>
<td><strong>Service Intervals and Quantities</strong></td>
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<tr>
<td><strong>Model 583</strong></td>
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<tr>
<td><strong>Model 533</strong></td>
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<tr>
<td><strong>John Deere Loaders Compatible with the 5R Series</strong></td>
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<tr>
<td><strong>maximum permissible gross weight at 40 km/h</strong></td>
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<tr>
<td><strong>model 583</strong></td>
<td>6320 kg</td>
<td>6540 kg</td>
<td>6760 kg</td>
</tr>
<tr>
<td><strong>model 533</strong></td>
<td>6120 kg</td>
<td>6340 kg</td>
<td>6560 kg</td>
</tr>
</tbody>
</table>

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**Minimal downtime Maximum uptime**

We’ve worked hard to minimize 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. Even with a loader fitted you can tilt up the bonnet with one hand to carry out almost all your regular maintenance checks.

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.

“Speed and ease” were the two factors our designers focused on. We’ve worked hard to minimize the time you spend on service and maintenance. ‘Speed and ease’ were the two factors our designers focused on.
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. ServiceDEALER 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.