

6R Series Tractors (Euro Spec)

92 to 177 kW (125 to 240 hp) 97/68EC with Intelligent Power Management



Setting Directions

John Deere's most successful compact tractor series, the 6000 Series, now reaches a new level of performance, efficiency and comfort.

The new 6R Series introduces the cutting edge PowerTech PVX engine with **GreenEfficiency** fuel economy and uncompromising power. The single fluid direction allows you to just fill up with diesel and get back to work.

All 6R Series tractors have been infused with state-of-the-art know-how from top to bottom: sensational new suspension comfort, DirectDrive transmission, unprecedented cab visibility and an integrated technology concept.

R you ready?





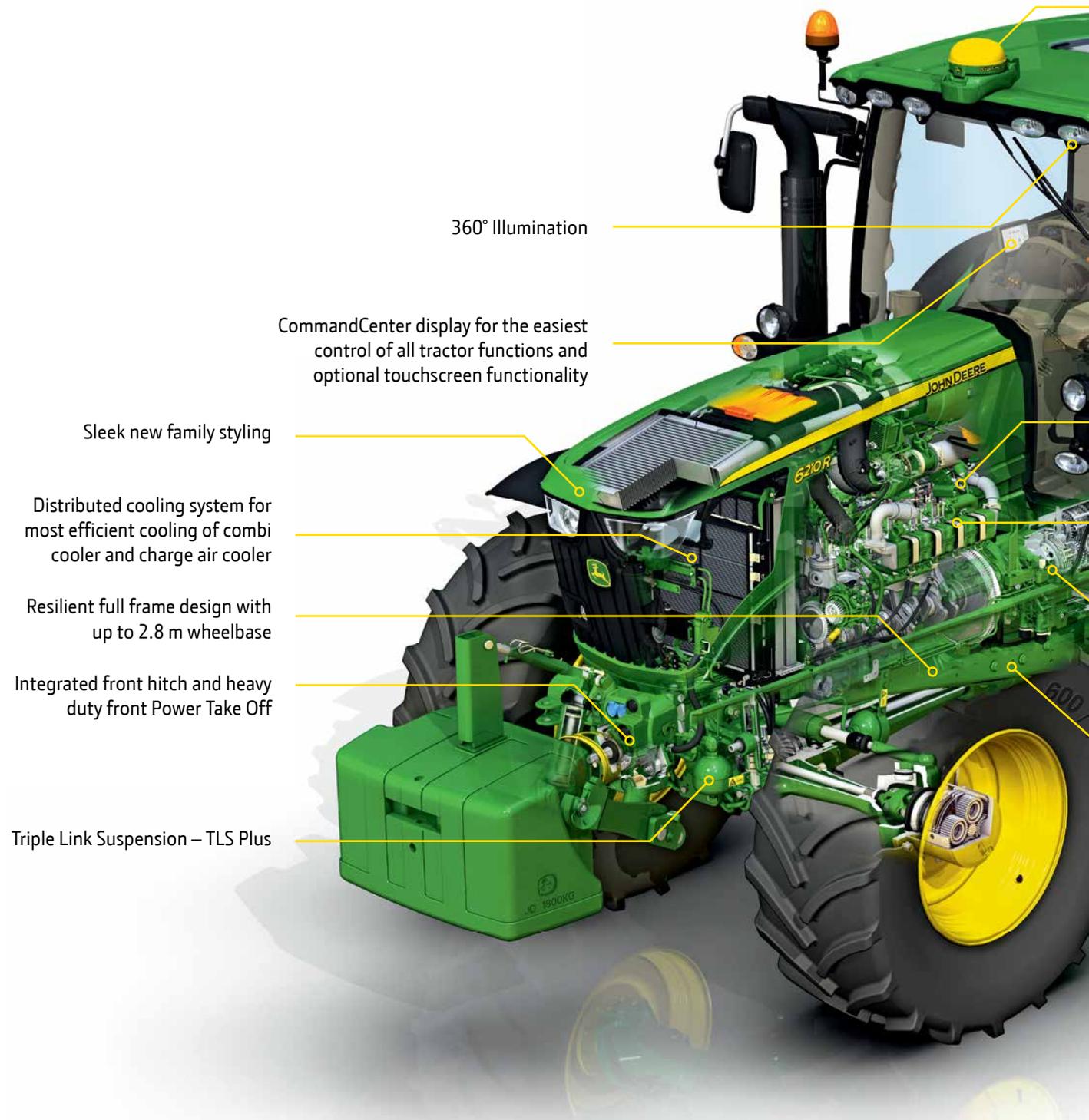
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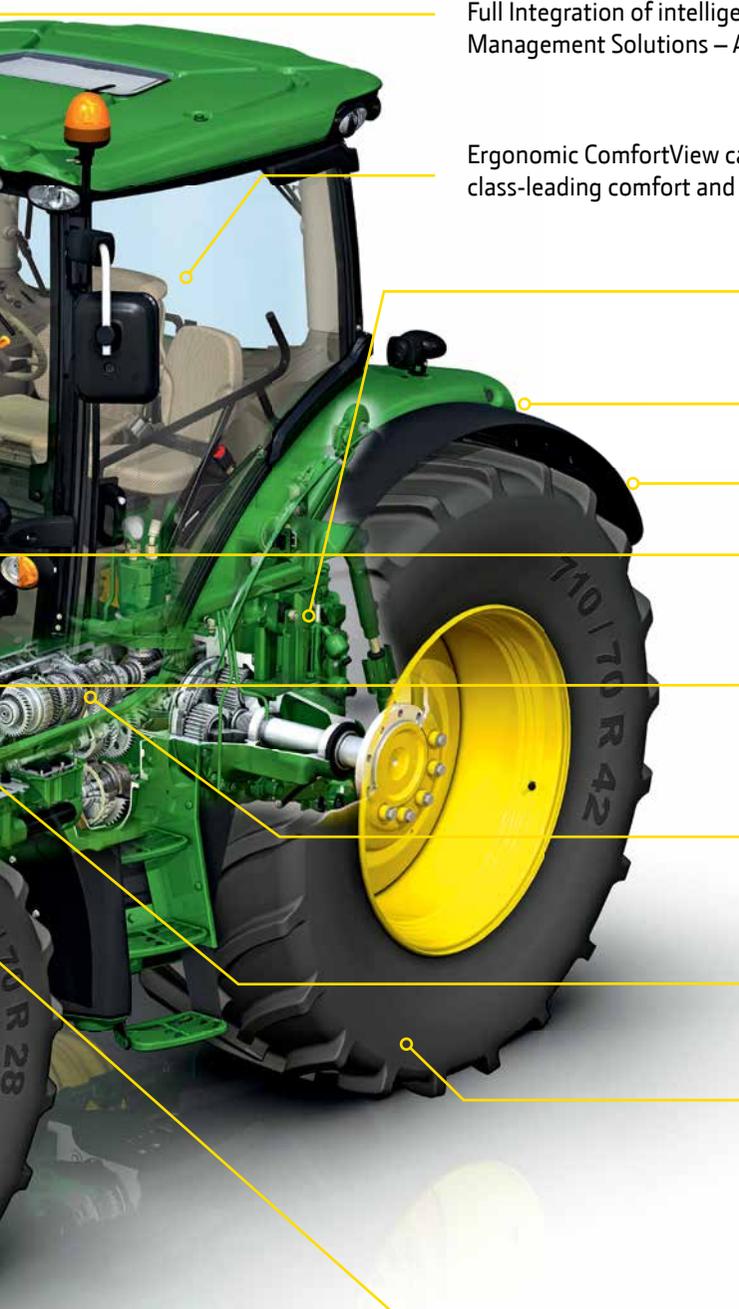
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6R is Evolution!

With over 550,000 of the 6000 Series built in Mannheim so far, the 6R Series builds on proven success and durability.

We took the best and made it better, enhancing the power, efficiency and flexibility of these legendary tractors.





Full Integration of intelligent Agricultural Management Solutions – AMS

Ergonomic ComfortView cab with class-leading comfort and visibility

Adaptive Hydraulic Cab Suspension Plus – HCS Plus

Stronger hydraulics with more take out oil capacity

Higher lift capacity with high performance throughout lift capacity

New extended model line up

PowerTech PVX engines with 4.5 L and 6.8 L

DirectDrive transmission utilises double-clutch technology giving unique comfort and benchmark efficiency

Efficiency Manager for adequate gear and engine rpm selections, thus best efficiency

Larger tyre options – up to 2.05 m

High power density due to compact design and stunning horsepower

6R is Revolution!

While building on proven John Deere quality, the 6R Series is also a completely new tractor manufacturing concept, introducing nine new models to the John Deere family, from 92 kW to 178 kW* (125 hp to 240 hp) – all with the pioneering Stage III B compliant PowerTech PVX engine and optional with the revolution in transmission technology - DirectDrive. Of course, the revolution does not stop there.

6R Series: One part Evolution. One part Revolution. 100% John Deere.

*kW quoted with Intelligent Power Management (IPM)

The choice is yours!

The clever platform concept of the 6R Series, with its different wheelbases and finely tuned performance levels, lets you choose what best suits your tasks and applications.

Select the best model for you and discover the new level of performance this extraordinary range of tractors can offer.

6R models (Rated Power 97/68EC)

6105R	78 kW (105 hp)	(125 hp with IPM)
6115R	85 kW (115 hp)	(135 hp with IPM)
6125R	92 kW (125 hp)	(145 hp with IPM)
6130R	96 kW (130 hp)	(150 hp with IPM)
6140R	103 kW (140 hp)	(160 hp with IPM)
6150R	110 kW (150 hp)	(170 hp with IPM)
6170R	125 kW (170 hp)	(200 hp with IPM)
6190R	140 kW (190 hp)	(220 hp with IPM)
6210R	154 kW (210 hp)	(240 hp with IPM)



The 6R Series sets new standards
John Deere has the tractor that is best suited to your needs



Three chassis sizes, countless opportunities



2580 mm

Compact, light and tough

6105R

615R

625R



2765mm

Versatile, efficient and strong

630R

640R

650R



2800 mm

Dependable, focused and stunning power

670R

690R

6210R

The quality YOU demand!

Quality is integral to John Deere's heritage. It has always been our express goal to build the best products – with the highest quality and flexibility to exceed customer expectations. To make sure we are doing our job right, we work closely with you, our customers, in the development and evaluation of our farming machinery and services.

Customer Satisfaction Index (CSI)

Six months after receiving your tractor, you will be sent a questionnaire, allowing you to give us feedback on your experience with our product. For years we have collected this data which has allowed us to further develop the series and significantly improve our sales, service and manufacturing processes.

Customer Focus Groups (CFG)

We involve customers in the development of our tractors right from the beginning. Long before we introduce a new product to the market, we invite a representative group of customers to evaluate the prototypes we are working on. This way, we always keep the current needs and expectations of agricultural professionals at the centre of our work.

John Deere Quality and Production System (JDQPS)

Constant improvement is an ambitious goal for a company that, in many fields, is already market leader. To achieve this we have established an internal system to reduce complexity, improve effectiveness and optimise efficiency. By implementing six sigma guiding principles, best practices and common tools and processes, we focus on maximising quality across the whole business in a systematic and cost effective way.



Customer approved

Right from the beginning, customers are involved in the development of our tractors

The John Deere Development Engineering Group puts all our products through the toughest of trials.

But most of all they know what John Deere customers demand: these tractors won't let you down when you're out in the field and exposed to unpredictable natural forces.

You never know what conditions you may be faced with, but our Engineers take care that even the worst scenarios will not bring you to a halt.



Wind can chill the motor and interfere with driving, that's why we tested the 6R to remain resilient even in exceptional conditions



You would never drive your 6R through this mess, so we did it for you! Mud test result: Top Scorer!

Reliable through thick and thin

John Deere has built its reputation on manufacturing reliable machines for the agricultural sector. Ask anyone and they will confirm: John Deere stands for reliability. That's a reputation that the 6R Series lives up to!

Merciless and relentless testing is the key to ensuring our tractors deliver the reliability our customers expect from a John Deere tractor. As part of their development, all new tractors are subject to many years of testing before they are released to market, these tests include wind tunnels, cold rooms, bump tracks, tilt platforms, electrical magnetic interference testing and mud baths – all designed to recreate agricultural conditions in their most intensive form.

So you can rest assured, your new John Deere 6R Series tractor is built to last.

XXL experience

With its high quality materials, excellent ergonomics and inviting comfort, the 6R Series ComfortView cab may remind you of the interior of a new car. First-rate craftsmanship! Plus, you'll immediately notice the increased space – 20% more compared to 6030 Premium Series tractors – that's a new industry benchmark.

Other interior enhancements also add to the surprising sense of XXL in such a compact package – from the superb automotive quality fit and finish of the interior surfaces and components, to the ergonomic seat for optimised comfort on long working days and the new instructor seat.

Huge windscreen for the best visibility – tilt option available

Front instrument panel with clear and modern design

Tilt and telescopic steering column

Left and right Panorama doors for perfect visibility

Comfortable and foldable Passenger seat

Multiple seat options to meet your requirements

Left Hand storage compartment – optionally available as a refrigerator





Optional GreenStar 2630 Display – mountable at front and rear right hand corner posts

GreenStar 3 CommandCenter and optional touch screen allows the video function to monitor sensitive implement areas without the need of an additional monitor

Bluetooth telephone connectivity with SIM card access via CommandCenter Display – for the most modern and comfortable in cab experience

Multiple cup holders and storage areas for long working days

Various power outlets mounted in the cab, including 230 V plug

Expand your horizons

The newly designed slender engine hood and improved all-around visibility of the 6R Series cab also helps operators get a better overview of what's outside and keep a closer watch on their work.

The optional panorama roof expands this visibility even further, enabling better and more convenient front loader work with up to 30% better loader visibility, especially when combined with the new range of John Deere front loaders.



Optional electric telescopic, adjustable and heated mirrors let you set your mirrors exactly where you want them from inside the cab.

You're the boss

There's an unprecedented level of in-cab comfort and functionality in a 6R Series tractor.

The new GreenStar 3 CommandCenter display is easy to read and operate, especially with the new, optional touch screen version and the exclusive intelligent Total Equipment Control (iTEC) system lets you automate multiple operating functions simultaneously.

The right-hand console makes it easy and convenient to maximise productivity with:

- Hot keys for field CruiseControl, iTEC system, transmission and PTO settings
- Air conditioning controls
- Radio controls
- MFWD controls
- Light controls



Both the GreenStar 3 CommandCenter display and the optional Touch display support ISOBUS standards and enable Tractor Implement Automation.



Operator interface? Outstanding!

Your GreenStar 3 CommandCenter Touch display helps keep operations simple. With all controls “easily to hand”, operator fatigue is reduced and tractor operation improved. All you do is focus on the task at hand.

The new GreenStar 3 CommandCenter display

Important AMS applications can now be operated directly via the GreenStar 3 CommandCenter display, such as AutoTrac and Tractor Implement Automation (TIA).

- Completely integrated 7” full-colour wide screen
- ISOBUS functionality
- On-board Diagnostics Tool
- Access Manager/ Function lock out
- AMS applications (e.g. AutoTrac, GreenStar, Sprayer Pro)
- Universal Performance Monitor
- Video function (Touch version only)

The new all-in-1 GreenStar 2630 display (optional)

The GreenStar 3 2630 Display features a robust touchscreen with backlit LCD for greater brilliance and more processing power.

- Guidance & Guidance Pro Modules (e.g. iTEC, iSteer and iGuide)
- Advanced ISOBUS capability (e.g. universal section control)
- Documentation
- Video function
- Standby Mode
- Access Manager – to password protect important settings (included in base)



Touch and go

Access Manager and video icons appear on the screen for easy activation and control of functions.

A plus in Productivity

The 6R Series offers the premium suspended front axle option of Triple Link Suspension Plus. TLS Plus not only guarantees optimum traction and field performance with up to 7% more power to the ground, it also ensures higher operator comfort, which considerably reduces fatigue and increases productivity.

Another plus: John Deere TLS Plus smoothly handles all axle load conditions thanks to impressive adaptive features.

- Self-levelling with ± 50 mm suspension travel
- Automatic adjustment of axle sensitivity and suspension rate
- Long draft member for optimised draft performance
- Synchronisation with hitch sensing system to compensate power hop effect under heavy pull conditions

From light operation to heavy rear mounted implement and heavy front loader work, TLS Plus is an all-round productivity boost for your operations.



Better braking

TLS Plus utilises additional brake discs in the front axle hubs to provide increased braking capacity.



Easy rider

The optional semi-active hydraulic cab suspension uses sensors to detect body movement and accordingly increases or decreases the amount of oil in the shock absorber ram.

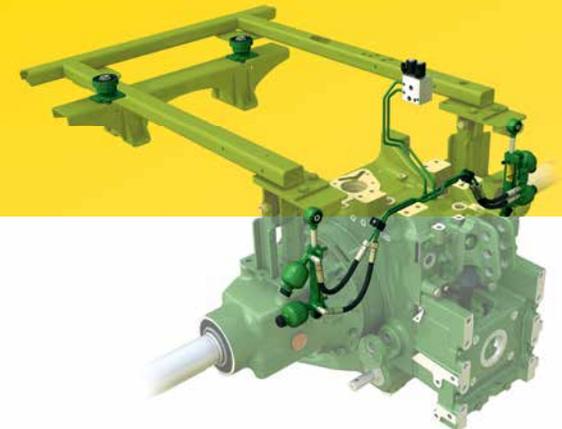
Hard work never felt so easy

Greater operator comfort is known to boost productivity. That's why we've worked hard to make your driving experience more enjoyable.

Even after many hours in the ComfortView Cab, you'll be surprised at how much you have been able to accomplish without tiring.

The optimised air suspended operator seat certainly does its part in helping the hours go by and the pneumatic comfort level can be adjusted as desired. The seat also features horizontal suspension and adapts dynamically to the operator's weight when height is adjusted.

The new semi active hydraulic cab suspension (HCS Plus) option also considerably improves driving comfort in the field and on the road. The cab rests on two semi-active shock absorbers, reducing cab movement, while still giving the operator an accurate feel for the tractor and the ground below.



Light up the night

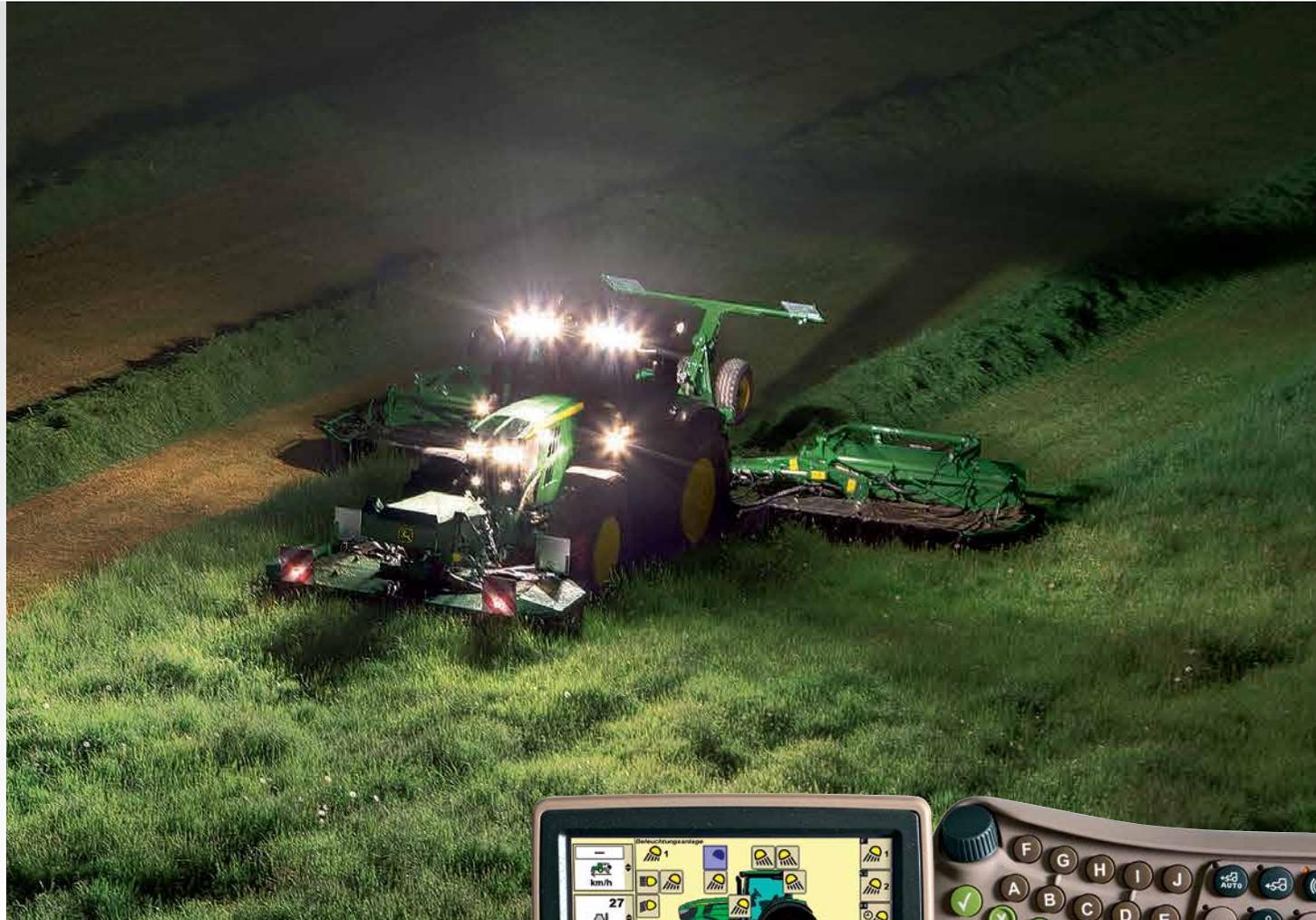
Farming is a 24-hour-a-day business. Ploughing, cultivating, even harvesting can require extended night shifts.

Fortunately, 6R Series tractors outshine with a lighting system that means better control and higher productivity for your operators.

You've never seen anything like it!

- Up to 10 cab lights provide 360° visibility, integrated into the front, rear and sides of the roofline to prevent possible damage
- 6 adjustable belt line and rear fender field lights increase flexibility
- 6 field, spot and road lights on the bonnet grille guide you from dusk till dawn
- 8 optional Xenon lights on the roof (front and rear), rear fender and the beltline, give the full illumination. Bring daylight into the night

For your convenience, all lighting equipment is controlled via the CommandCenter.



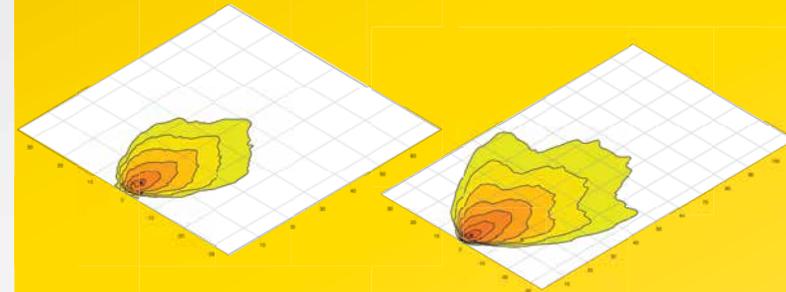
Programming your CommandCenter control to provide lighting that's perfect for night-time applications. It couldn't be easier.





The best and the brightest – Premium HID Xenon offerings

Up to 8 additional High-Intensity Discharge (HID) Xenon Lights delivering up to 5 times the service life of halogen bulbs and 2.5 times the luminance. This brightness and daylight colour output ensure excellent field illumination.



Standard lighting pattern

The new improved lighting pattern on the 6R Series

The optional Xenon lighting packages give the optimum in lighting performance

1 Beltline lights

- turn signals with clearance lights
- optional 2 HB3, HID or H4 adjustable work lights

2 Optional rear fender work lights

- 2 HB3 Lights
- 2 HID Lights

3 Cab roof rear mounted lights

- inner position: 2 HB3 adjustable work lights; mid position: optional 2 HB3 or 2 HID work lights
- Outer position: HB3 fixed work lights; Side roof position: 2 HB3 fixed work lights

4 Cab roof front mounted lights

- mid position: 2 HB3 adjustable work lights, optional HID lights
- outer position: optional 2 HB3 fixed work lights

5 Hood lights

- 2 HB3 hood road lights low beam
- 2 HB3 hood road lights high beam
- 2 HB3 hood outer work lights

In addition to the factory installed lighting package we offer you a variety of lighting field installation kits:

Right-on-target with automation

John Deere has advanced automation systems to help tractor operators work faster and longer without tiring. The amount of work, time and money you save is up to you.

Guidance technology

Operators can follow signals on the GreenStar Lightbar to improve their steering or, for greater comfort and accuracy, use AutoTrac, the guidance technology solution from John Deere, to reduce overlap with each and every pass by up to 90%. For fully automated headland manoeuvres, iTEC can be used to easily programme the required machinery steps via the GreenStar 3 CommandCenter display.

Using the new StarFire 3000 receiver, you can choose from three accuracy levels:

- Get ± 30 cm pass-to-pass accuracy with the FREE SF1 signal, perfect for tillage
- Get ± 10 cm pass-to-pass accuracy with the SF2 signal, ideal for mowing, seeding and spraying
- Choose ± 2 cm repeatable RTK signal accuracy for the highest precision demands

Naturally there are a wide range of further Agricultural Management Solutions to boost the quality and efficiency of your operation. Choose from:

Documentation: Automatically record all your field applications on your GreenStar 2630 Display. From tillage to seeding, spraying and fertiliser spreading, you can document precisely what was done, where, when and by whom.

Active implement guidance: This is the advanced solution for plough steering or speciality crop operations. The implement actively compensates for off-track drift by using integrated sensors and hydraulics.



Top reception

The new StarFire 3000 receiver, capable of working with both GPS and Glonass satellite based systems, supports all John Deere guidance systems and is compatible with all signal accuracy levels (SF1, SF2, RTK, SF Mobile RTK).





Don't keep your future waiting

Do you want to manage your fleet of machines more effectively? Do you want to be alerted if a tractor strays outside a predefined zone or exceeds preset operating hours? Would you like your own virtual service technician? The JDLink telematics solutions from John Deere make all that possible!

JDLink Select

As an outstanding entry-level solution, JDLink Select provides location-specific data about the tractors. On this basis you can set up a virtual fence around your machines, monitor the machine hours and plan maintenance.

JDLink Ultimate

JDLink Ultimate accesses the on-board CANBus system to provide you with the all key performance data of the tractors. This enables you to measure the machines' operating times and utilisation, plus you can analyse their fuel consumption in detail.

Service ADVISOR Remote

With Service ADVISOR Remote you can give your John Deere dealer access rights to the machine. He can then identify any problems remotely at an early stage and supply the correct spare part. This avoids unnecessary journeys.

JDLink means fleet management and monitoring at the click of a mouse.

Tractor Implement Automation – automatically better

The guiding principle of John Deere Tractor Implement Automation is relaxed working instead of stress that makes your heart rate climb. This exciting and award winning concept will make the implement talk to the tractor via ISOBUS and adjust everything from tractor speed to hydraulic valves – to ensure maximum productivity for you.

And the operator? With Tractor Implement Automation the only thing that needs to be done is shift the lever to start and steer the tractor – and not even that is always necessary! Tractor Implement Automation will do the rest. The stress of extensive and complex work is now a thing of the past. But Tractor Implement Automation not only means a more comfortable ride, you will also get the most out of your implement.



Compact, efficient, precise – enabled by TIA



The tractor/ loader wagon combination offers optimum system utilisation.

Mobilising performance reserves

The vision of highly integrated tractor and implement systems is now a reality. No matter what the job is, Tractor Implement Automation enables automated adjustments of all electronically controlled tractor functions – speed, steering, PTO, 3-point-hitch and hydraulics.

Technology sets the course:

- With Tractor Baler Automation selected, John Deere round balers automatically trigger recurring actions such as stopping the tractor and tying and ejecting bales. The benefits are shorter cycle times and a consistent bale size.
- The Pöttinger Intelligent Loader Wagon Combination automatically follows the swath and adjusts tractor speed depending on its density. If the swath thins out, the tractor automatically travels faster. If there is a lot to be harvested, it goes slower.
- Spreading slurry with select Joskin and Zunhammer slurry tankers is now more efficient than ever. The tractor PTO is controlled based on fill-level to automatically shut off at the end of the filling process and is controlled to match the desired application rate during spreading.
- Grimme GL420 Exacta potato planters with John Deere tractors offer you efficiency and planting precision through optimally controlling the working depth of the tiller by automatically adjusting the 3-point-hitch – and all of that with a very compact machine.
- Harvesting potatoes has never been easier as with John Deere tractors and Grimme SE150-60 and SE170-60 potato harvesters! Tractor forward speed and PTO are controlled to ensure optimum loading of the cleaning belts maximising throughput while protecting potatoes from damage and preventing time consuming blockages – while you focus on all those other important things.

GreenEfficiency – Horsepower that's raring to go

The incredible performance, transient response time and torque output of the new PowerTech PVX engine unleashes up to 170 kW (231 hp) max. power and with Intelligent Power Management, up to 183 kW (249 hp) max. power. The secret to this impressive power lies in the 4-valve High Pressure Common Rail (HPCR) fuel system, featuring an injection pressure of up to 2000 bar for higher engine efficiency and the Variable Geometry Turbocharger (VGT). The VGT significantly increases performance whilst reducing fuel consumption and providing the exact amount of boost required by the engine.

Exhaust Gas Recirculation (EGR) further mixes measured amounts of cooled exhaust gas with incoming fresh air to reduce nitrogen oxides (NOx) emissions. The unique high capacity Combi Cooler system and charge air cooling system also improve engine performance.

This is John Deere's premium solution for Agriculture – a solution that is common place at the high end of the automotive industry. Furthermore, with this solution John Deere is ready for future trends, as the new 6R tractors are also B20 biodiesel ready.



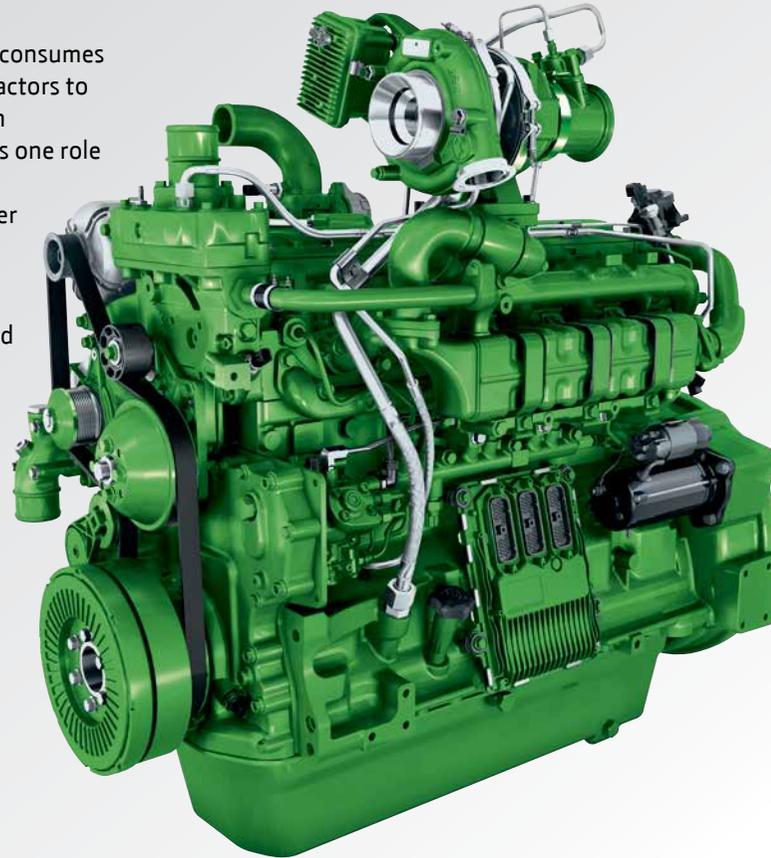
- 1** DOC: The Diesel Oxidation Catalyst reacts with exhaust gases to reduce carbon monoxide, hydrocarbons and some particulate matter
- 2** DPF: The Diesel Particulate Filter forces exhaust gases to flow through porous channel walls, trapping and holding even the finest-remaining particulate matter for later oxidization in a self-activating cleaning process

Modelled on practical applications

When you buy a tractor, you want to know what it consumes under tough conditions. John Deere subjects its tractors to the independent DLG PowerMix test of the German Agricultural Society (DLG). And that only recognises one role model: practical application. John Deere was a key player to further improve the PowerMix test in order to enhance a realistic and fair testing.

The first John Deere tractor submitted to the DLG PowerMix test was the 8335R. This tractor recorded the lowest ever total fluid consumption of 260 g/kWh (Diesel+AdBlue) with a Stage 3B engine.

The same proven fuel efficient technology has now been carried down onto the 6R series tractors. The results will be communicated in 2013 and will prove the preeminence of the John Deere concept also for the 6R. John Deere's GreenEfficiency technology pays dividends for you – day in, day out.

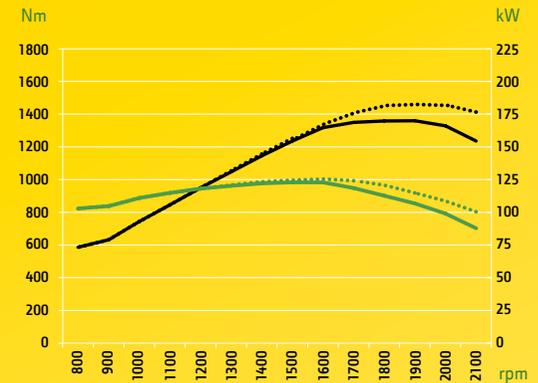


Charge Air Cooler (CAC)

The innovative distributed cooling concept allows the charge air cooler fan to run at an independent speed to the main fan, further improving fuel efficiency.

6210R

PowerTech PVX engine with incredible performance



- Power (kW)
- Power (kW) with IPM
- Torque (Nm)
- Torque (Nm) with IPM

GreenEfficiency, GreenSimplicity, Automotive proven:

- Cooled EGR helps reduce NOx emissions
- VGT helps to reduce fuel consumption as well as ensuring an efficient burn
- 4-valve cylinder head increases efficiency, power and torque
- The HPCR fuel system provides increased fuel pressure for more efficient combustion and helps reduce Particulate Matter
- The automatic regenerative function of the filter system increases the fuel consumption by less than 1g

Strong backbone for strong performance

The continuous full frame design, unique to John Deere, forms the rugged backbone of the 6R Series tractors. This allows the tractors to handle the toughest traction tasks with the same ease as it lifts and transports heavy loads. Engine and transmission are positioned on the frame mounted on insulating blocks. This shields the structural components from stresses and keeps vibrations to a minimum. A further benefit of the full frame is that it's easier to mount a front loader.

All the advantages at a glance:

- Greater driving comfort
- Higher load bearing capacity
- Lower stress on engine and transmission
- Simple fitting of front loader and front hitch
- High stability and long life



When we're talking about the transmission, four's company!

Because we know that there isn't one transmission for all requirements, we offer the new 6R Series with different transmission variants. We can locate the right transmission for you from our application-oriented selection.

- 1 Are you a livestock farmer or mixed arable farmer looking for a cost effective, simple to use and proven transmission? Then PowrQuad Plus is the transmission for you!

PowrQuad Plus with its four power shift speeds with optional creeper gear is guaranteed to be the right one for you. With this transmission switching gears is comfortable and smooth, even when under load. **Please see page 26.**

- 2 Are you a mid size farmer looking for a cost effective, simple to use and proven transmission with added comfort. Then AutoQuad Plus is the transmission to meet your needs! This transmission automatically switches between the power shift speeds. Our EcoShift function enables driving comfort with low fuel consumption. **Please see page 26.**

- 3 Are you a farmer continuously looking for a transmission that gives you high efficiency and infinite speed adjustment. No matter what the size of your business or the range of applications, AutoPowr is the transmission for you! You simply set the speed and AutoPowr will do the rest. **Please see page 27.**

- 4 Are you looking for the ultimate transmission? The one that will lead the future of transmission in agriculture for years to come? A transmission with the ultimate efficiency and comfort. Then DirectDrive is the transmission for you! The semi-automatic, eight-gear, dual-clutch transmission sets new standards in terms of shifting speed and comfort. **Please see pages 28-29.**



AutoQuad PLUS vs. PowrQuad PLUS

Both AutoQuad PLUS and PowrQuad PLUS include four gear ranges, cruise control for applications that demand constant speeds and creeper for speeds as low as 250 m/h.

Other premium features in both transmissions:

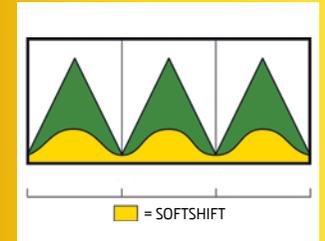
- Park Lock
- Single lever shifting with declutch button
- SoftShift technology
- Speed matching
- Long life PermaClutch
- Infinitely adjustable shift points

What is the difference? AutoQuad PLUS is the premium choice with automatic shifting between gears. You can also set the change points anywhere between 1700 and 2100 rpm, so you are always in the right gear for the job. That's really useful when you hit hard ground during ploughing or when you're pulling up hill on the road.

Furthermore, the 40 kph AutoQuad Plus includes EcoShift, a technology that helps lower engine rpm at high transport speeds to achieve greater operator comfort and reduce fuel consumption.



The declutch button on PowrQuad PLUS and AutoQuad PLUS transmissions allows you to conveniently shift ranges on-the-go, without using the clutch pedal.



SoftShift ensures a smooth gear change, even under load, by briefly and automatically engaging the engine in shifting operations

AutoPowr = Infinite possibilities

AutoPowr transmission can be driven by anyone within a few seconds of sitting in the seat. A single lever lets you shift smoothly from 0 to 40 or 50 km/h – and any speed in between.

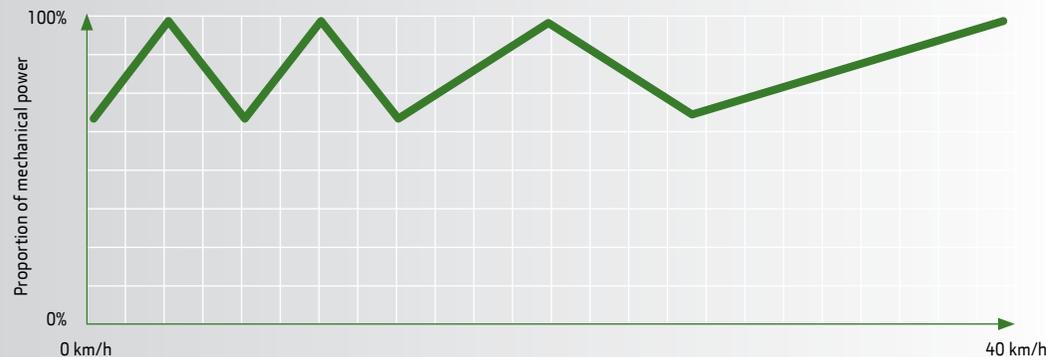
There's absolutely no clutching required, even to stop the tractor. You can dial in a specific speed and the transmission and engine work together to keep the tractor in balance, with worry-free, instant and automatic response to changing load conditions.

With the PowerZero feature, you can even hold the tractor at zero speed – that means no rollbacks, even on inclines, regardless of load.

The park lock function provides increased braking-power when a trailer is attached by actively braking the trailer.

Drive Pedal Mode

In certain applications that require precise acceleration and deceleration you will benefit from the convenience of the optional Drive Pedal Mode. This feature allows you to set the engine speed with the hand throttle and control the forward speed with the drive pedal. It's extremely comfortable, even on the longest working days.



AutoPowr at a glance:

- Automatic control of transmission ratio to maintaining set forward speed whilst reducing engine speed and fuel consumption
- 100% mechanical power at 4, 8, 20 and 40 km/h equals high efficiency both in the field and at road speed
- Individual driving strategy with Drive Pedal Mode



The Transmission Revolution

The future's here! Inspired by the ultimate in automotive design from the premium manufacturers, John Deere has designed, developed and tested the ultimate in agricultural transmissions. The all-new DirectDrive transmission.

Next generation in transmission technology! In the past the milestone transmissions have been powershiftable (mechanical) transmissions and infinitely-variable transmissions (IVT). Mechanical shifting provides a fuel efficient draft transmission and IVT provides the premium comfort solution. DirectDrive offers the best of both worlds: the efficiency of a mechanical transmission and the comfort of an IVT.



The DirectDrive transmission features dual-clutch technology in a 100% mechanical transmission for outstanding efficiency. This three-range transmission has the next gear already lined up, ready to go and just waiting for the change command to be given. You benefit from no loss of momentum during changes, thus a reduction in fuel consumption and increase in comfort. And also important: thanks to its electric shifting, weather conditions or inside temperature won't affect its performance from the very beginning of the working day.

The AutoClutch feature is also available for DirectDrive transmissions and adds even greater convenience and productivity potential to transport, loader and inching operations.

For safe parking, the mechanical park lock can be activated electronically with the left-hand reverser.

Brake with confidence also applies to trailers, which are braked via the tractor's park lock.

Direct drive will be available second half of 2012.





Two are better than one!

Thanks to the double clutch, DirectDrive Transmission offers all of the advantages of AutoPowr and AutoQuad combined – as well as enabling new possibilities and unparalleled efficiency.

By increasing the number of powershift speeds to eight, the John Deere DirectDrive Transmission reduces the need for range shifting, which significantly reduces the frequency of torque interruptions. The result is more efficient application of engine power and outstanding fuel efficiency.

The tractor can be driven fully automatically like an IVT transmission or the operator can choose from three ranges depending on the application:

- Range A** for draft work with eight powershift speeds from 2.7 – 10.8 km/h
- Range B** for PTO work with eight powershift speeds from 5.4 – 21.5 km/h
- Range C** for transport with eight powershift speeds from 13.8 – 42 km/h or 13.8 – 54.6 km/h

For the ultimate in transport, button B/C can be selected which utilises both ranges B and C and automatically shifts between the two. A speed of 40 km/h can be reached with only 1550 rpm and 50 km/h with 1600 engine rpm.

DirectDrive Transmission smoothly overlaps gears by using two clutches, one for the even gears and one for the odd gears.

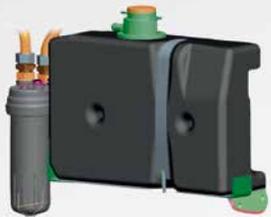


Optimised hydraulics: more power, more speed, more comfort, more efficient

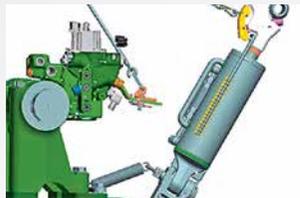
6R Series tractors feature a closed-centre, pressure and flow compensated hydraulic system. More than anything, it's built for the utmost reliability. That's why, at the heart of the system, you'll find fewer hydraulic parts, fewer hydraulic connections and shorter hydraulic lines.

And there's plenty of power to go around. The 6R series offers up to an incredible 155 l/min flow rate from a 63 cc pump. With a 200 bar max. system pressure, your operators will benefit from amazing hydraulic performance and enhanced steering response. Even at low engine speeds.

You also save precious time and money since our two high capacity hydraulic filters only need to be replaced every 1500 hours!



The extra capacity auxiliary tank ensures enough oil is available for heavy duty hydraulic applications.



With the EasyGuide Centre Link you can fit even heavy hydraulic top links to the attachment easily and comfortably without leaving the operator's seat.



The new 6R Series hydraulic system has the stability and control for even the most precise requirements.

All-round command

The CommandCenter controls allow you to manage the Selective Control Vales (SCVs) on-the-go.

This is a convenient solution for operating hitches and light draft applications such as air seeders and implements with a hydraulic actuator.

Control the flow

With the optional electronic-SCV's the large digital GreenStar 3 CommandCenter display lets you monitor flow rates and times, keeping you in control of the hydraulic systems that flow throughout your tractor.



Efficient in every detail

The optional pneumatic trailer brake comes with an air drier for highest convenience and full functionality. Efficiency wise you will benefit from the base equipped electro-magnetic clutch for the pneumatic compressor. Not just efficient but also comfortable in every detail.

Give productivity a lift with John Deere hitches

When it's time to hitch up, John Deere delivers the power you need – with high lift capacity, even for heavy duty implements! In fact, for your fully mounted implement tasks, our three-point hitches offer up to 9550 kg maximum lift capacity.

6R three point hitches features:

- Electronic hitch sensing for varying load conditions
- Hitch dampening for improved ride stability
- Sway blocks and sway stabilisers (also hydraulic sway stabilisers)
- iTEC system technology for total implement management
- Convenient CommandCenter controls for three-point hitch set-up, depth, height, rate of drop, slip and dampening

With the new self-centring John Deere front weights you can now flexibly adapt your tractor's ballast to changing requirements. The benefit is quick and easy coupling and ideal alignment of the front weight and greater productivity. Optimum ballast will lower fuel consumption.



Hooking up the new 1500 or 1800 kg weights has never been easier.



Built-in versatility

We do all we can to help you do more. That's why, for example, our 6R Series tractors are ISOBUS ready. This plug-and-play technology enhances performance and prepares you for future developments. Plus, since you only need one display like the factory installed GreenStar 3 CommandCenter or the GreenStar 2630 to control your ISOBUS compatible implements, it saves money, too.

Think of the 6R Series tractors as self-contained power plants for operating power harrows, wood choppers, large grain trailers, rotary cutters, balers – you name it!

An independent 3-speed electrically shifted PTO is standard on all 6R Series tractors. You also have a choice of:

- 540 / 540E / 1000
- 540E / 1000 / 1000E*



Fast and impressive accuracy for high demand PTO applications

Integrated front hitch

6R Series tractors are also available with a fully integrated front hitch, offering up to 4000 kg maximum lift capacity.

The front hitch also features:

- Two front SCV couplers
- Fully integrated design
- Double acting cylinders for both lift and down-pressure
- iTEC compatibility
- 7 pin light socket

The integrated front hitch is also available as a field installation kit, please talk to your dealer.



Integrated Front PTO

*Only available for 6170R - 6210R models

Green loaders for Green tractors

With a John Deere front loader you can be sure of the best performance, greatest durability and perfect alignment with your John Deere tractor.

Why? Because we design our loaders as an integral part of your tractor – not something you bolt on afterwards. The extra strength and durability means you can use your hydraulic power to its full potential.

John Deere front loaders provide you with all this and more:

- Balanced front axle load
- Optimal load and tractor stability
- Slim mounting frame
- New standard EURO carrier for attachments
- Less frame and structure stress
- Ergonomic controls
- Unmatched visibility
- Integrated suspension, diverter and relief valve
- Integrated hydraulic routing with concealed oil lines
- Unmatched serviceability



Since John Deere manufactures both the tractor and the loader, integrated functions like the joystick are optimised for smooth performance.

Which loader fits my farm?

Non self-levelling (NSL) loaders are ideal when it is not necessary to keep attachments absolutely level during raise/lower cycles.

Mechanical self-levelling (MSL) loaders automatically keep your attachment level during raise/lower cycles. They are ideal for tough loader tasks.

Hydraulic self-levelling (HSL) loaders offer greatest power, accuracy and visibility and ensure a valuable efficiency during all your front loader applications.

Electronic self-levelling (ESL) The electronic self-levelling system on a NSL loader greatly improves the front visibility since there are no mechanics in view, while it offers position memories in the Return To Position (RTP) feature which enables accurate movements with only one touch of a button.

6 models and the John Deere loaders they support

6105R	H310, H340
6115R	H310, H340
6125R	H310, H340
6130R	H340, H360
6140R	H340, H360
6150R	H340, H360
6170R	H360, H380
6190R	H360, H380
6210R	H360, H380

Lift height* and Lift Force (MSL)

	Lift height*	Lift Force (MSL)
H310	3.80 m	1850 kg
H340	4.10 m	1900 kg
H360	4.40 m	2000 kg
H380	4.50 m	2150 kg



The H340 and H360 are the right choice if you spend a lot of time during the year loading. The lift capacity of the H360 is up to 2.0 t and 4.4 m height.*



The H380 is designed for years of heavy duty work with a lift capacity of up to 2.15 t and 4.5 m height.*



The H310 is a more compact loader, ideal for front loader applications in small places. The lift capacity of the H310 is up to 1.85 t and 3.8 m height.*

*Full height at pivot point

Service? Simple.

The 6R Series tractors provide instant access to all critical areas for fast and easy daily service.

- Service points are reached from ground level
- Sight glasses are built into most fluid cases with easy line of sight
- Service reminders are built into the vehicle, this alerts you when service is due
- Engine air, cab fresh air and the recirculation filters are inspected and changed without tools
- Maintenance free bushings, bearings and drive shafts are incorporated wherever possible

Save costs. Save effort.

Your John Deere dealer will keep your 6R Series tractor running in top condition. Your technician provides Service ADVISOR diagnostics for fast and reliable inspections and uses only the best quality John Deere parts. For an extended warranty, ask your dealer about the John Deere PowerGard Protection Plan.

Operator and owner friendly

- Easy maintenance and access
- Extended oil service intervals
- High reliability and low costs
- High quality of JD original parts



John Deere Attachments

You can set your tractor up just the way you want it by adding quality John Deere attachments and accessories. These items will increase your comfort, convenience and productivity.



Field Office: The Field Office provides a place for everything, all within your reach and it's removable so you can take valuable contents with you when you go. It provides dust free storage of important documents, phones even laptop computers.



Internal Mirrors: See what's going on behind the tractor with this inner rear view mirror. It let's you easily check implement performance and watch for others approaching the tractor.



Electrical cooling compartment: No matter how long you're in the field, this refrigerator – with a 5 litre capacity – will keep your food and drinks cool.



Seat swivel device: Seats with swivel bases enable easy access to and from the cab. Adjustable swivel adapters allow you to turn 180° for easy access in and out of the seat and for easier control of rear implements.

The John Deere Advantage

Tractor engines work at lower speeds but with a higher maximum torque. That puts extra stress on the engine and generates significant amounts of heat. Our engineers put that knowledge to use when they developed the new John Deere Plus-50 II engine oil!

PowerGard™ – no worries

Let's be honest: maintenance is irritating. But you don't need to give it another thought because John Deere's PowerGard offers you flexible maintenance and warranty programmes that meet your individual needs and offer you optimum safety at predictable costs.

PowerGard™ Maintenance

Covers all repair and maintenance tasks other than warranty.

PowerGard Protection Plan™

The PowerGard Protection Plan offers valuable extended warranty coverage to protect you from unforeseen future repair bills and the costly downtime that a breakdown can cause.

Choose the extended coverage plan that you prefer:

- Limited* for main components of the engine and powertrain
- Comprehensive* for main components of the full machine

Select from a variety of flexible term lengths, in total months and total hours. Choose the terms that fit your individual needs, depending on how long you plan to own your tractor and your estimated annual usage hours.

*The PowerGard Protection Plan (Limited or Comprehensive) does not cover attachments, maintenance or high-wear items, nor other non-covered components specifically mentioned in the contract terms.

PLUS 50 II



Specifications

	6105R	6115R	6125R	6130R	6140R
ENGINE PERFORMANCE					
Rated Power (97/68EC), hp (kW)	105 (78)	115 (85)	125 (92)	130 (96)	140 (103)
Rated Power with IPM (97/68EC), hp (kW)	125 (92)	135 (99)	145 (107)	150 (110)	160 (118)
Max. Power (97/68EC) hp (kW)	116 (85)	127 (93)	138 (101)	143 (105)	154 (113)
Max. Power with IPM (97/68EC) hp (kW)	129 (95)	140 (103)	150 (110)	155 (114)	166 (122)
Constant Power Range, rpm	630	630	630	630	630
Torque Reserve, percent	40%	40%	40%	40%	40%
Maximum Torque, Nm (at 1600 engine rpm)	492	538	585	609	656
Rated Speed, rpm	2100	2100	2100	2100	2100
Manufacturer	John Deere Power Systems				
Type	PowerTech Plus engines with single fluid operation				
Aftertreatment	Exhaust Filter with Diesel Oxidation Catalyst (DOC) and Diesel Particulate Filter (DPF)				
Filter, engine air	PowerCore G2 Air Filter with Pre-cleaning				
Aspiration (EU Stage III B)	Variable Geometry Turbocharger with Intercooler and Cooled Exhaust Gas				
Cylinders and Displacement	4/4.5 L	4/4.5 L	4/4.5 L	4/4.5 L	6/6.8 L
Cooling system	Distributed Cooling System with Temperature Controlled Viscous Fan Drive & Independent Charge Air Cooler Fan				
Fuel Injection system & Control	High Pressure CommonRail System with up to 2000 bar Injection Pressure				
TRANSMISSION OPTIONS					
PowrQuad Plus					
20/20 2.5 – 40 km/h	–	–	–	–	•
24/24 2.5 – 40 km/h	•	•	•	•	–
AutoQuad Plus					
20/20 2.5 – 40 km/h or 2.5 – 50 km/h	–	–	–	–	•
24/24 2.5 – 40 km/h or 2.5 – 50 km/h	•	•	•	•	–
AutoQuad Plus EcoShift					
20/20 2.5 – 40 km/h	–	–	–	–	•
24/24 2.5 – 40 km/h	•	•	•	•	–
AutoPowr					
0.05 km/h – 40 km/h or 50 km/h	•	•	•	•	•
DirectDrive					
2.7 – 40 km/h	–	–	–	–	•
2.7 – 50 km/h	–	–	–	–	•
Creeper (PowrQuad Plus, AutoQuad Plus and AutoQuad Plus EcoShift)	•	•	•	•	•
AXLES					
Suspension design	Triple Link Suspension (TLS Plus) MFWD Axle, hydro-pneumatic, permanently active, triple link, self levelling suspension				
Suspension range	100 mm suspension range				
Engagement front differential lock	Self-locking differential				
Engagement rear differential lock	Electro-hydraulically with oil cooled clutch				
Rear Axle	Flange Axle	Flange Axle	Flange Axle	Flange Axle	Flange Axle
STEERING					
Type	Dynamic Load Sensing, Hydrostatic, Flow Metering				
HYDRAULIC SYSTEM					
Type	Pressure & Flow Compensated (PFC) System with Load Sensing Function				
Flow at rated speed base/option, l/min	80/114	80/114	80/114	80/114	80/114
Selective control valves (maximum)	4+3	4+3	4+3	4+3	4+3
Power beyond	X	X	X	X	X
Oil take out capacity without/ with additional tank	27/32	27/32	27/32	27/37	27/45

	6105R	6115R	6125R	6130R	6140R
3-POINT HITCH – Rear					
Type	Electronic lower link; load & depth control, infinite mix, float				
Category	II/IIIN	IIIN	IIIN	IIIN	III
Maximum lift capacity at hooks, kg	4600	5300	6000	6800	7200
Lift capacity through full lift range (OECD 610 mm), kg	2950	3350	3850	4350	3700
Lift capacity through full lift range (OECD at the hooks), kg	3300	3800	4350	4900	4250
3-POINT HITCH – Front					
Type	Front towing hitch controlled by rear SCV, SCV line optional				
Category	IIIN	IIIN	IIIN	IIIN	IIIN
Maximum lift capacity at hooks, kg	4000	4000	4000	4000	4000
Lift capacity through full lift range (OECD at the hooks), kg	3300	3300	3300	3300	3300
REAR PTO					
Type	Electro-hydraulically operated, oil cooled, multi-disc design				
Engine rpm at rated PTO speeds (540/540E/1000 rear PTO)	1950/1721/1950	1950/1721/1950	1950/1721/1950	1950/1721/1950	1987/1753/2000
Engine rpm at rated PTO speeds (540E/1000/1000E rear PTO)*	–	–	–	–	–
<i>*only with AutoPowr or DirectDrive transmission</i>					
FRONT PTO					
Type	Electro-hydraulically operated, oil cooled				
Engine rpm at rated PTO speed (1000), rpm	1969	1969	1969	1969	1969
CAB					
Specifications	ComfortView cab with best all around visibility, panorama doors, Climatrak and GreenStar 3 CommandCenter Display				
Suspension	Adaptive hydraulic cab suspension HCS Plus				
Drivers ear noise level, dBA	70.6				
Cab Glass Area, m ²	6.11				
Cab Volume, m ³	3.33				
Display	GreenStar 3 CommandCenter Display (optional touch version)				
MISCELLANEOUS					
AutoTrac Ready	Optional				
ISOBUS Implement Connection	Optional				
Command Center Video (available with Touch screen only)	Optional				
Immobiliser	Optional				
Drive Pedal Mode	Comes with AutoPowr				
Trailer Brake system	Hydraulic or pneumatic system optional				
Pneumatic trailer brake system	Electro-magnetic compressor clutch, hydraulic retarding valve, air pressure drier included				
CAPACITIES					
Fuel Tank (base /option)	220 without HCS Plus, 265 with HCS Plus	220 without HCS Plus, 265 with HCS Plus	220 without HCS Plus, 265 with HCS Plus	330	350
Engine Coolant	22	22	22	27	27
DIMENSIONS AND WEIGHTS					
Wheelbase, mm	2580	2580	2580	2765	2765
Width x Height x Length, mm*,**	2430 x 2800 x 4540	2430 x 2800 x 4540	2430 x 2800 x 4540	2490 x 2950 x 4930	2490 x 2950 x 4930
<i>*measured with flanged axle, up to cab roof, from front weight support to horizontal draft links</i>					
Ground clearance, mm*,**	500	500	500	530	530
<i>*measured under centre of front axle</i>					
<i>**measured with max. front and rear tyre size, see below</i>					
Turning radius*					
Turning radius according to ISO789-3 measured for 600/65R30 at 2050 mm tread setting for 1.6 bar tyre pressure	–	–	–	–	–
Average shipping weight, kg	5440	5455	5470	5640	6160
<i>*measured with AutoQuad Plus trans, TLS front axle, drawba and max. tyre size, see below</i>					
Maximum Permissible Gross Weight, kg	8500	9500	9500	10000	10800
Tyre Sizes					
Front axle tyre sizes, max. available (diameter in cm)	540/65 R24 (134)	540/65 R24 (134)	540/65 R24 (134)	540/65 R28 (144)	600/70 R28 (152)
Rear axle tyre sizes, max. available (diameter in cm)	600/65 R38 (178)	600/65 R38 (178)	600/65 R38 (178)	650/65 R38 (185)	710/70 R38 (200)

	6150R	6170R	6190R	6210R
ENGINE PERFORMANCE				
Rated Power (97/68EC), hp (kW)	150 (110)	170 (125)	190 (140)	210 (154)
Rated Power with IPM (97/68EC), hp (kW)	170 (125)	200 (147)	220 (162)	240 (177)
Max. Power (97/68EC) hp (kW)	165 (121)	187 (138)	209 (154)	231 (170)
Max. Power with IPM (97/68EC) hp (kW)	175 (129)	207 (152)	228 (167)	249 (183)
Constant Power Range, rpm	630	630	630	630
Torque Reserve, percent	40	40	40	40
Maximum Torque, Nm (at 1600 engine rpm)	702	796	890	983
Rated Speed, rpm	2100	2100	2100	2100
Rated Speed, rpm	John Deere Power Systems			
Manufacturer	PowerTech Plus engines with single fluid operation			
Type	Exhaust Filter with Diesel Oxidation Catalyst (DOC) and Diesel Particulate Filter (DPF)			
Aftertreatment	PowerCore G2 Air Filter with Pre-cleaning			
Filter, engine air	Variable Geometry Turbocharger with Intercooler and Cooled Exhaust Gas			
Cylinders and Displacement	6/6.8 L	6/6.8 L	6/6.8 L	6/6.8 L
Cooling system	Distributed Cooling System with Temperature Controlled Viscous Fan Drive & Independent Charge Air Cooler Fan			
Fuel Injection system & Control	High Pressure CommonRail System with up to 2000 bar Injection Pressure			
TRANSMISSIONS OPTIONS				
PowrQuad Plus				
20/20 2.5 – 40 km/h	•	•	•	•
24/24 2.5 – 40 km/h	–	–	–	–
AutoQuad Plus				
20/20 2.5 – 40 km/h or 2.5 – 50 km/h	•	•	•	•
24/24 2.5 – 40 km/h or 2.5 – 50 km/h	–	–	–	–
AutoQuad Plus EcoShift				
20/20 2.5 – 40 km/h	•	•	•	•
24/24 2.5 – 40 km/h	–	–	–	–
AutoPowr				
0.05 km/h – 40 km/h or 50 km/h	•	•	•	•
DirectDrive				
2.7 – 40 km/h	•	•	•	•
2.7 – 50 km/h	•	•	•	•
Creeper (PowrQuad Plus, AutoQuad Plus and AutoQuad Plus EcoShift)	•	–	–	–
AXLES				
Suspension design	Triple Link Suspension (TLS Plus) MFWD Axle, hydro-pneumatic, permanently active, triple link, self levelling suspension			
Suspension range	100 mm suspension range			
Engagement front differential lock	Self-locking differential			
Engagement rear differential lock	Electro-hydraulically with oil cooled clutch			
Rear Axle	Flange Axle	Flange Axle or Rack & Pinion Axle	Flange Axle or Rack & Pinion Axle	Flange Axle or Rack & Pinion Axle
STEERING				
Type	Dynamic Load Sensing, Hydrostatic, Flow Metering			
HYDRAULIC SYSTEM				
Type	Pressure & Flow Compensated (PFC) System with Load Sensing Function			
Flow at rated speed base/option, l/min	80/114	114/155	114/155	114/155
Selective control valves (maximum)	4+3	4+3	4+3	4+3
Power beyond	X	X	X	X
Oil take out capacity without/ with additional tank	27/45	27/55	27/55	27/55

	6150R	6170R	6190R	6210R
3-POINT HITCH – REAR				
Type	Electronic lower link; load & depth control, infinite mix, float			
Category	III	III	III	III
Maximum lift capacity at hooks, kg	8100	8500	8500	9550
Lift capacity through full lift range (OECD 610 mm), kg	4200	4850	4850	5450
Lift capacity through full lift range (OECD at the hooks), kg	4800	5350	5350	6000
3-POINT HITCH – FRONT				
Type	Front towing hitch controlled by rear SCV, SCV line optional			
Category	IIIN	IIIN	IIIN	IIIN
Maximum lift capacity at hooks, kg	4000	4000	4000	4000
Lift capacity through full lift range (OECD at the hooks), kg	3300	3300	3300	3300
REAR PTO				
Type	Electro-hydraulically operated, oil cooled, multi-disc design			
Engine rpm at rated PTO speeds (540/540E/1000 rear PTO)	1987/1253/2000	1950/1721/1950	1950/1721/1950	1950/1721/1950
Engine rpm at rated PTO speeds (540E/1000/1000E rear PTO)*	1761/1989/1756	1761/1989/1756	1761/1989/1756	1761/1989/1756
<i>*only with AutoPowr or DirectDrive transmission</i>				
FRONT PTO				
Type	Electro-hydraulically operated, oil cooled	Electro-hydraulically operated, oil cooled	Electro-hydraulically operated, oil cooled	Electro-hydraulically operated, oil cooled
Engine rpm at rated PTO speed (1000), rpm	1969	1969	1969	1969
CAB				
Specifications	ComfortView cab with best all around visibility, panorama doors, Climatrak and GreenStar 3 CommandCenter Display			
Suspension	Adaptive hydraulic cab suspension HCS Plus			
Operators ear noise level, dBA	70.6			
Cab Glass Area, m ²	6.11			
Cab Volume, m ³	3.33			
Display	GreenStar 3 CommandCenter Display (optional touch version)			
MISCELLANEOUS				
AutoTrac Ready	Optional			
ISOBUS Implement Connection	Optional			
Command Center Video (available with Touch screen only)	Optional			
Immobiliser	Optional			
Drive Pedal Mode	Comes with AutoPowr			
Trailer Brake system	Hydraulic or pneumatic system optional			
Pneumatic trailer brake system	Electro-magnetic compressor clutch, hydraulic retarding valve, air pressure drier included			
CAPACITIES				
Fuel Tank (base /option)	350	455 / 400	455 / 400	455 / 400
Engine Coolant	27	28	28	28
DIMENSIONS AND WEIGHTS				
Wheelbase, mm	2765	2800	2800	2800
Width x Height x Length, mm*,**	2490 x 2950 x 4930	2550 x 3160 x 5050	2550 x 3160 x 5050	2550 x 3160 x 5050
<i>*measured with flanged axle, up to cab roof, from front weight support to horizontal draft links</i>				
Ground clearance, mm**,**	530	560	560	560
<i>**measured under centre of front axle</i>				
<i>**measured with max. front and rear tyre size, see below</i>				
Turning radius. Turning radius according to ISO789-3 measured for 600/65R30 at 2050 mm tread setting for 1.6 bar tyre pressure	–	5.7	5.7	5.7
Average shipping weight, kg	6195	7350	7375	7400
<i>*measured with AutoQuad Plus trans, TLS front axle, drawbar and max. tyre size, see below</i>				
Maximum Permissible Gross Weight, kg	11300	12000	13000	13000
TYRE SIZES				
Front axle tyre sizes, max. available (diameter in cm)	600/65 R28 (152)	600/70 R28 (158)	600/70 R28 (158)	600/70 R28 (158)
Rear axle tyre sizes, max. available (diameter in cm)	710/70 R38 (200)	710/70 R42 (205)	710/70 R42 (205)	710/70 R42 (205)



We do it all for you

Providing solutions to your challenges! John Deere is committed to keeping you up and running. That's why our products and technologies are quality-built, state-of-the-art and efficient.

We've invested so much time in building an effective dealer network, so we can be like a good neighbour — there to help when you need us.

That's why all our dealer employees are John Deere trained. They know every nut and bolt on your equipment and they're skilled at diagnosing any potential problems.

Count on John Deere for all your tractor needs. With nearly 175 years of experience in the farm equipment business, we can honestly say: reliability is our strength.



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