

6R



JOHN DEERE

NOTHING RUNS LIKE A DEERE

FARM SMART, PROFIT MORE

THE NEW 6R FAMILY IS THE NO.1 IN TRANSPORT AND FEATURES CUTTING-EDGE AUTOMATION FOR EFFORTLESS SITE-SPECIFIC FARMING THANKS TO 1-CLICK-GO-AUTOSETUP. A 6R IS YOUR ROBUST, LOW-WEIGHT, PERFORMANCE SOLUTION WITH SUPREME PULLING POWER.



Reduce your setup time in the field by up to 50% with 1-Click-Go-AutoSetup



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MAXIMUM DURABILITY

The John Deere full frame design forms the rugged backbone of all 6R Series tractors. Engine and transmission are mounted within the frame on insulating blocks that reduce stress and operating noise. It's the perfect platform for a John Deere front loader.



GO SMART, DO MORE.

Every 6R tractor is designed and engineered to be the most versatile, light and powerful constituent of your workforce, built to overcome the diverse challenges presented by terrain, prevailing conditions and operational windows.

NEW AND EVEN SMARTER

When you improve the best, great things happen. Building on its legendary pulling power, reliability and comfort, we gave the 6R Series some new and even smarter models.



1 | 1-CLICK-GO-AUTOSETUP

Reduce in-field setup time by up to 50%: Tasks planned in the Operations Center automatically appear on the Gen4 display when entering the field – just one click confirms the details to start working.

2 | NO. 1 IN TRANSPORT

Our 6R 250 is leading in the DLG PowerMix Transport 2.0 Test¹, and the Chamber of Agriculture Lower Saxony (Germany) confirmed the exceptional efficiency of the 6R 215 in their 2020 tractor test².

3 | PROVEN FUEL EFFICIENCY

“The DLG PowerMix Test 2.0 confirmed that, with the 6R 185, John Deere has succeeded in creating a responsive transport tractor [...] these are top results”³.

7 | TRANSMISSIONS

Extra convenient CommandQuad™ Plus, super efficient & powerful DirectDrive and efficient stepless AutoPower™.

8 | SMARTER HYDRAULICS

Smarter Intelligent Power Management for up to 40 additional HP in hydraulic applications and up to six rear selective control valves (SCV's) with up to 195 l/min hydraulic flow for top productivity.

9 | OUTSTANDING CAB

Extra spacious 3.33 m³ very quiet 71 dB(A) cab combined with new Corner Post Display, manufactured to automotive industry standards.

¹Profi Test Results, Tractor-Test "John Deere 6250R: More Vario", 06/2018; www.profi.de DLG-PowerMix-Transport Test 2.0 (Transport application); page 10 to 16: https://pruefberichte.dlg.org/filestorage/0618_John_Deere_6250R.pdf

²Chamber of Agriculture Lower Saxony (Germany) tractor test. "Comparing standard tractors (without Unimog) the John Deere achieved the lowest diesel consumption. [...] It is interesting that, despite the low fuel consumption, the 6215R was also the fastest when accelerating with two trailers"; www.niedersachsen.profi.de, Profi Test Results, 06/2018 (www.profi.de), Profi Test Results, 11/2021 (www.profi.de)

³Traction 04/2022 (www.traction-magazine.de)



DOES IT ALL

Whether you're a livestock farmer, arable farmer, mixed farmer or a contracting business – one of our 6Rs was made for you.

4 | ALWAYS UP-TO-DATE

JDLINK™ enables remote servicing and operator support, and our regular over-the-air software upgrades ensure your tractor always has the latest updates.

5 | LOW COST OF OWNERSHIP

Low fuel consumption, low maintenance and repair costs and a very strong re-sale value guarantees the best value for money.

6 | ENGINE PERFORMANCE

The 4.5 l or 6.8 l John Deere engines with up to 301 hp max. power give you fantastic power at reduced operating costs.

10 | COMMANDPRO™

Perfect ergonomics, driving strategy and reconfigurability.

11 | COMFORT

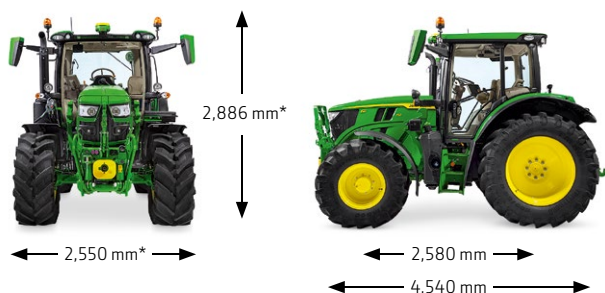
TLS™ Plus front axle Suspension and HCS Plus cab suspension work together to provide the best ride & drive experience.

12 | AXLES AND TYRES

Large rear tyres for maximum pull. TLS™ Plus and Variable Ratio Steering in the front axle for outstanding comfort.



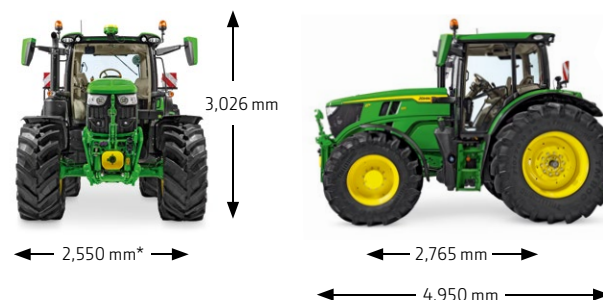
**SMALL FRAME:
COMPACT, LIGHT AND POWERFUL**



* With 540/65R24 front tyres and 600/65R38 rear tyres

6,500 KG**

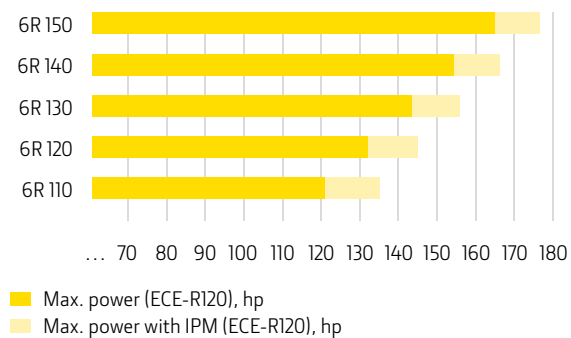
**MID FRAME:
ULTIMATE VERSATILITY
AND PERFORMANCE**



* With 540/65R28 front tyres and 600/65R38 rear tyres

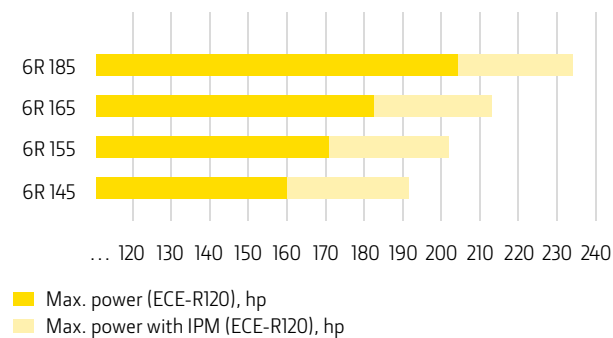
7,900 KG**

ENGINE PERFORMANCE



** With average specifications

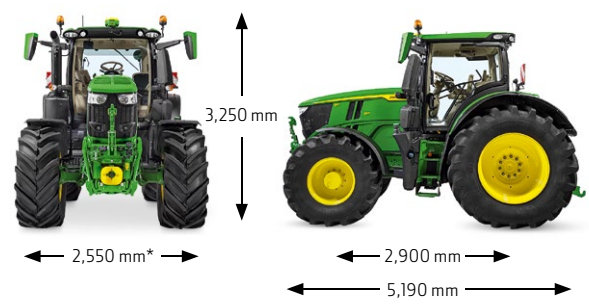
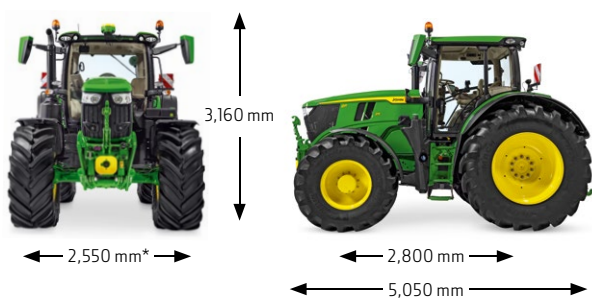
ENGINE PERFORMANCE





**LARGE FRAME:
THE POWER TO PERFORM**

**XTRA-LARGE FRAME:
POWERFULLY TOUGH**



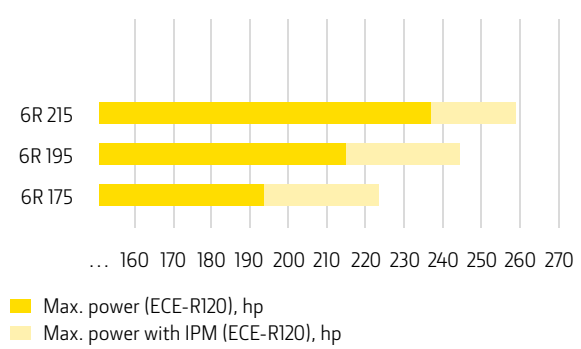
* With 600/70R30 front tyres and 800/70R38 rear tyres

* With 600/70R30 front tyres and 800/70R38 rear tyres

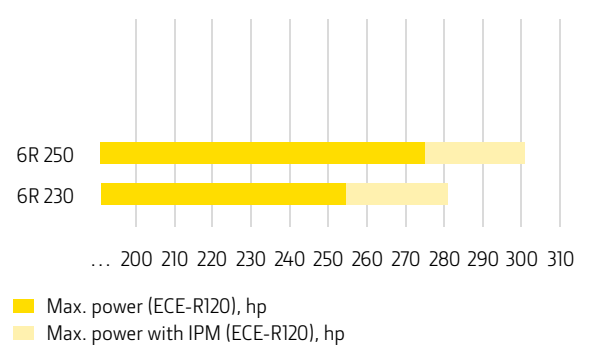
8,800 KG**

9,650 KG**

ENGINE PERFORMANCE



ENGINE PERFORMANCE



** With average specifications

6R SMALL FRAME TRACTORS

COMPACT, LIGHT AND POWERFUL

Experience the versatility of this unique high-horsepower 4-cylinder compact tractor. This true front loader expert features our Dynamic Weighing System so that you'll enjoy loading your feed wagons faster and with more precision than ever.



ENGINES

	6R 110	6R 120	6R 130	6R 140	6R 150
Cylinders	4	4	4	4	4
Displacement (l)	4.5	4.5	4.5	4.5	4.5
Max. power (ECE-R120), hp (kW) "Power in field"	121 (89)	132 (97)	143 (105)	154 (113)	165 (121)
Max. power with IPM (ECE-R120), hp (kW) "Power in transport & PTO"	135 (99)	145 (107)	156 (115)	166 (122)	177 (130)



DYNAMIC WEIGHING ON THE GO

Enhance your precision on the go: Our dynamic weighing system enables you to fill the bucket to the exact desired weight and lets you create step by step wagon-filling recipes.

FRONT LOADING EXPERT

The rugged John Deere full frame design, their high-maneuvrability short wheelbase, and up to 155 l/min hydraulics (Optional for 6R 130-6R 150) predestine the 6R Small Frame models for loader work. Reach new levels of productivity with the R Series loaders, featuring a dynamic weighing system, return-to-position and level-to-horizon.



TOP ALL-ROUNDER

On Top of its excellent fuel efficiency, the 6R 150 also features higher lift capacity, 4 tons of payload, and larger 650/65 R 38 tyres for less compaction. This 6R is ready for any job.



6R MID FRAME TRACTORS

ULTIMATE VERSATILITY AND PERFORMANCE

In our 6R 185, you will command up to 234 hp with IPM in a lightweight, 7.9-ton mid frame envelope with unmatched fuel efficiency in transport.



ENGINES

	6R 145	6R 155	6R 165	6R 185
Cylinders	6	6	6	6
Displacement (l)	6.8	6.8	6.8	6.8
Max. power (ECE-R120), hp (kW) "Power in field"	160 (117)	171 (125)	182 (133)	204 (150)
Max. power with IPM (ECE-R120), hp (kW) "Power in transport & PTO"	192 (141)	203 (149)	213 (157)	234 (172)



SMARTER IPM

Smarter Intelligent Power Management (IPM) with up to 40 additional hp on demand keep the tractor performance consistent in applications with power-hungry hydraulic-driven implements and earned a nomination at the 2022 Elmia Innovation Awards.



TRANSPORT MASTERS

The 6R 165 and 6R 185 are new light-weight, high-horsepower 6-cylinder models that extend our mid-frame line up with two new transport specialists.

“The DLG PowerMix Test 2.0 confirmed that, with the 6R 185, John Deere has succeeded in creating a responsive transport tractor [...] these are top results”
traction 04/2022 (www.traction-magazine.de)



GREAT CHOICES

Experience the superior ease of operation of our top-of-the-line AutoPowr™ transmission, or opt for the heavy-duty dual-clutch eight-speed, three-range DirectDrive transmission* specifically developed for 6R tractors.



AutoPowr™ with CommandPRO™



DirectDrive

* not available for 6R 185

6R LARGE FRAME TRACTORS

THE POWER TO PERFORM

Officially efficient: Contractors prefer these tractors for their outstanding efficiency*, top on-road performance, and the rock-solid, comfortable ride in all heavy-duty applications.



ENGINES

	6R 175	6R 195	6R 215
Cylinders	6	6	6
Displacement (l)	6.8	6.8	6.8
Max. power (ECE-R120), hp (kW) "Power in field"	193 (142)	215 (158)	237 (174)
Max. power with IPM (ECE-R120), hp (kW) "Power in transport & PTO"	223 (164)	244 (180)	259 (190)

* As recently confirmed for the 6215R in the Schleppertest 2020 by the Chamber of Agriculture Lower Saxony (Germany)



OFFICIALLY NO. 1

At only 19.2 l/h, the 6R 215 achieved the lowest Diesel consumption in the test* and delivered the quickest acceleration pulling 30-ton trailers* – outperforming competitors in the 250 hp test with a cost advantage of up to 4.7 €/h**.



ELECTRONIC CONTROL

The electronic joystick enables you to reconfigure hitch control, all SCV's, ISOBUS functions and the PowrReverser™ for convenient and efficient one-handed control of essential tractor functions.

TRANSMISSION CHOICES

We developed our advanced dual-clutch technology specifically for 6R tractors and the heavy-duty agricultural challenges you put them through. If you are also looking for superior ease of operation, opt for our top-of-the-line AutoPowr™ transmission.



AutoPowr™ with CommandPRO™



DirectDrive

* Chamber of Agriculture Lower Saxony (Germany) tractor test

** "Comparing standard tractors (without Unimog) the John Deere achieved the lowest diesel consumption. [...] It is interesting that, despite the low fuel consumption, the 6R 215 was also the fastest when accelerating with two trailers" – Chamber of Agriculture Lower Saxony (Germany) Tractor Test 2020; www.lwk-niedersachsen.de

6R XTRA LARGE FRAME TRACTORS

POWERFULLY TOUGH

More power all around, and a 100 mm longer wheelbase with 2.05 m tyres to get the tremendous power of these models to the ground with total efficiency.



ENGINES

	6R 230	6R 250
Cylinders	6	6
Displacement (l)	6.8	6.8
Max. power (ECE-R120), hp (kW) "Power in field"	253 (186)	275 (202)
Max. power with IPM (ECE-R120), hp (kW) "Power in transport & PTO"	281 (206)	301 (222)

**LONG-TERM TEST
OF THE 6250R**

“The John Deere 6250R was not only absolutely convincing in terms of fuel consumption and performance.”

TOP RELIABILITY

“The driving comfort and reliability – with only one short breakdown in a good two years – are also top.”

Profi 7/2022



TRUE POWER

With up to 195 l/min hydraulic pump and PTO options like the 540E/1000/1000E, 6R Xtra Large Frame models give you the powerful versatility to meet all implement demands.



NO. 1 IN TRANSPORT

Since 2018, the John Deere 6R 250 is leading in the DLG PowerMix Transport 2.0 Test, where the 6R 250 delivered the lowest fuel consumption compared to all competitors tested so far.¹

AUTOPOWER™ – IVT™

The superior ease of operation of our top-of-the-line AutoPower™ transmission complements the power and torque of your 6R – experience outstanding fuel efficiency and exceptionally high levels of operating comfort.



¹Profi Test Results, Tractor-Test "John Deere 6250R: More Vario", 06/2018; www.profi.de DLG-PowerMix-Transport Test 2.0 (Transport application) page 10 to 16: https://pruefberichte.dlg.org/filestorage/0618_John_Deere_6250R.pdf

1-CLICK-GO-AUTOSETUP

CUT SET-UP TIME BY UP TO 50%

Are you fed up with scribbling notes and wasting time clicking on displays? With 1-Click-Go-AutoSetup, you can reduce in-field setup time by up to 50%: your preplanned work tasks in the Operations Center automatically appear on the Gen4 Display when a machine with JDLink™ connectivity enters the field. All the operator has to do is confirm the details with one click, and they're ready to go*.

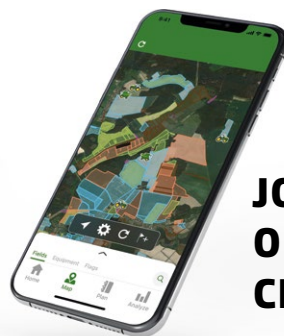


1-CLICK-GO AUTOSETUP

SIGN UP FOR A FREE ACCOUNT AT
OPERATIONSCENTER.DEERE.COM



Site-specific application maps from affiliated software companies



**JOHN DEERE
OPERATIONS
CENTER™**



The free John Deere Operations Center™ is the interface to your machines and fields

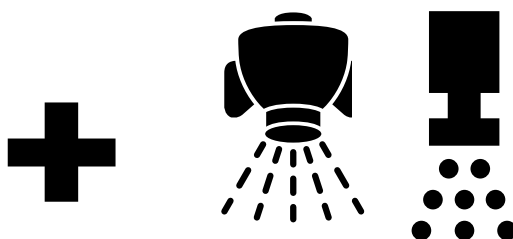
* Machine must be equipped with a Generation 4 CommandCenter™ or Universal Display (with minimum SU20-3 Software), StarFire™ 3000/6000/7000 receiver, JDLink™ connectivity and a John Deere Operations Center™ account. If not already equipped with a MTG 4G a retrofit is required.



Wirelessly send tasks to the tractor via JDLink™ connectivity to make sure the work gets done the way you want – no mistakes, no delays, and always properly documented.



The 6R already has the necessary hardware in its basic configuration



Site-specific application with Section Control for up to 255 sections on your implement



SITE-SPECIFIC FARMING MADE EASY

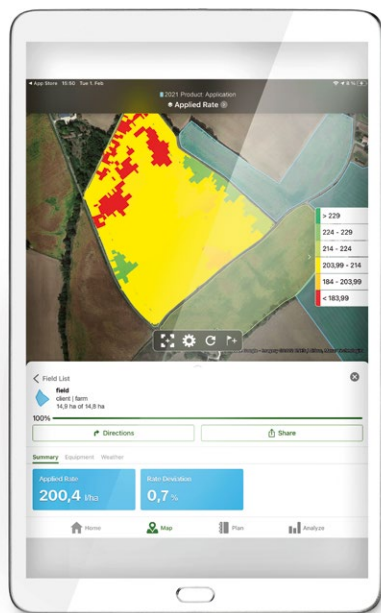
JOHN DEERE OPERATIONS CENTER™

Wirelessly connect all your machines, operators, and fields with total ease for unmatched precision and efficiency. You can access The John Deere Operations Center™ on your desktop or with a mobile device app.

All your essential data,
securely stored and easily
accessible from any device
at any time, anywhere.

AFFILIATED SOFTWARE COMPANIES

Forward documentation data to other Operations Center users and import documentation data from any manufacturer using ISOXML and other file formats. Share your machine data wirelessly via Data Connect from Claas Telematics, AFS Connect (Case IH), MyPLM Connect (New Holland) and S-Fleet (Steyr) machines.



PRESCRIPTION MAPS

Create prescription maps with affiliated software partners and easily import data into the Operations Center.

WORK ORDERS/JOB

Plan your work and send all job information, including prescription maps, directly to individual machines to eliminate in-field setup delays and mistakes.



FARM SMART, PROFIT MORE

BOOST YOUR YIELD WITH SITE-SPECIFIC FARMING

Thanks to John Deere precision ag technology, site-specific farming has never been easier than with a 6R. Take control of your yields and access the full potential of your fields with variable rate control and section control.



The 1-Click-Go-AutSetup magic: preplanned work tasks automatically appear on the Gen4 Display when a machine with JDLink™ connectivity enters the field – operators simply confirm the details with a single click.

SECTION CONTROL

Reduce overlap and minimise skips to ensure precise crop protectant and nutrient application with Section Control – for up to 255 sections on your implement.

VARIABLE RATE CONTROL

Optimise your profits with variable-rate application. Increase fertiliser, seeding, and chemical efficiency while boosting yield and reducing costs.





PLANT/SEED

Because every seeds counts, 6R allows you for customized seeding rate in different zones in the field based on a prescription map, potentially resulting in higher yield and lower input cost. At the same time, 6R is able to apply vary starting fertilizer rates in different zones in the field too.



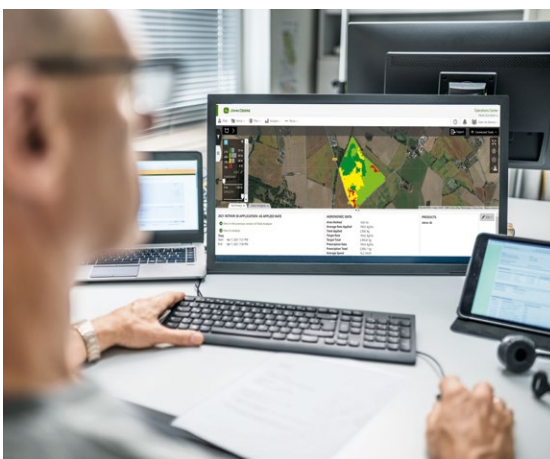
NURTURE

Optimising your yields while managing fertiliser costs has never been easier. Use the 6R's Precision Ag capabilities like Variable Rate and Section Control to spread the right amount of fertiliser at the exact right spot in the field based on a prescription map.



SPRAY BETTER

Every drop goes where it matters most when you're on a 6R tractor with a John Deere Sprayer. Achieve the highest spraying accuracy on every pass, thanks to our unique PowrSpray™ and Individual Nozzle Control technology.



KNOW MORE, GROW MORE

Make better decisions based on better information from the Operations Center: Powerful management tools let you monitor your machines' productivity and analyse your crops' performance. Supported by dealer specialists, you will improve your farming sustainability and profitability.



JOHN DEERE
StarFire 7000 Universal Receiver
COMPONENT SEE P/N M3628
PC5073410000

SAFETY INFORMATION
READ AND UNDERSTAND ALL SAFETY INFORMATION
BEFORE OPERATING THIS EQUIPMENT.
SEE THE OPERATOR'S MANUAL FOR MORE INFORMATION.
© 2014 JOHN DEERE
P/N 311.5 10 1000000000

Input Voltage / 115V
19VDC

UNBEATEN INTELLIGENCE

THE CHOICE IS YOURS

Better in every aspect. You do not just get a receiver, with the Operations Center you get a whole suite of guidance & agronomy related offboard farm management tools on top.

Our well proven StarFire™ 6000 Receiver builds up full signal accuracy quicker than ever, comes factory calibrated and is equipped with theft-prevention features like pin-code security.

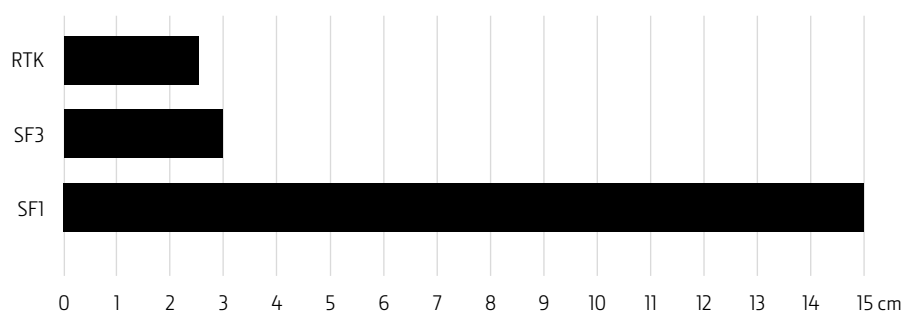
In late 2022 a new StarFire™ Receiver will offer even more Precision Ag Performance. No matter which signal accuracy level you'll choose, you'll be impressed by the superior signal stability this receiver will provide you when operating in shaded areas.

SFI that remains to be our in base differential correction signal, which suits for many applications. This is not where we stopped. SF3, available as option for StarFire™ 6000 offers +/- 3 cm pass-to-pass accuracy and 9-month in-season repeatability.

RTK enables you to benefit from 2.5 cm pass-to-pass accuracy, featuring long-term repeatability including 14 days RTK Extend™ if you lose line of sight or mobile network.

STARFIRE™ RECEIVER SIGNAL OPTIONS

A new level of accuracy, signal stability and repeatability.





NEXT LEVEL AUTOMATION

COMMANDCENTER™ AUTOMATION

On top of all the Premium Activation features, you'll also enjoy the added productivity benefits of automation solutions like AutoTrac™ Turn Automation, AutoTrac™ Implement Guidance Passive, AutoPath™ and Machine Sync.

AUTOTRAC™ TURN AUTOMATION

AutoTrac™ Turn Automation controls the entire headland turn and manages all tractor and implement functions, including forward speed changes and PTO switching. It raises or lowers the hitch or activates SCVs at exactly the right time and position in the field to guarantee perfectly consistent headland crop growth.

MACHINE SYNC

Wirelessly network multiple machines with one machine serving as the leader for precise, spill-free unloading on the go and improved harvest logistics.

AUTOTRAC™ VISION

The perfect steering solution to reduce crop damage in fields planted without a guidance system. A combination of a front mounted camera and auto-generated A-B lines guides the tractor for faster working speeds up to 30 km/h and will help you cover up to 20% more hectares in a day.

TRACTOR INTEGRATED ACTIVE IMPLEMENT GUIDANCE (WEED CONTROL)

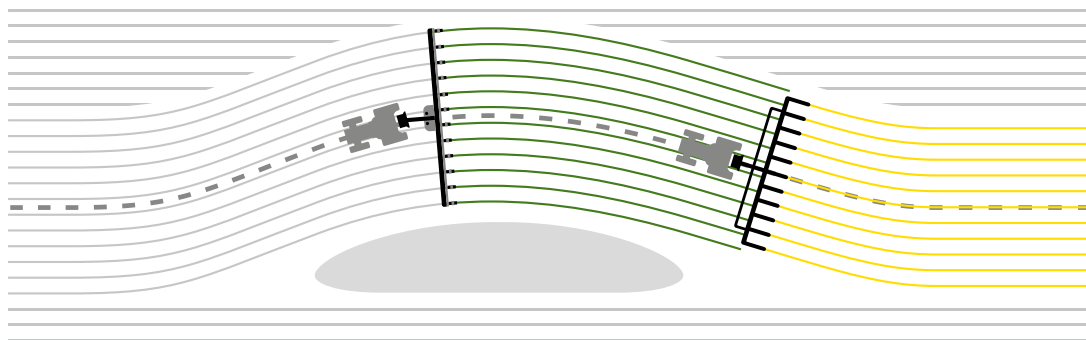
Welcome to automated high-speed row crop weeding at up to 16 km/h. The combination of AutoTrac™ and the camera-based AutoTrac™ Vision guidance solution allows the system to be used in fields planted with manual steering. Implement side shift is controlled by a hydraulic cylinder at the lower links, which eliminates the need for expensive side-shift frames, causes less soil compaction and allows for more accurate implement control.

AUTOTRAC™ IMPLEMENT GUIDANCE PASSIVE

Prevent pull-type implement drift in rolling terrain to achieve perfect pass-to-pass results without gaps and overlaps. This is an easy-to-install, low-investment package for consistent seed placement and crop growth: an implement receiver, harness, and an Ultimate activation are all you need.

AUTOPATH™

AutoPath™ automatically creates guidance lines for different width machines based on data gathered by the first pass of a strip till implement or planter. It takes charge of your guidance line management, protecting nutrient investment and helping you make each pass with confidence and precision. If you are using different width implements for planting, spraying or harvesting AutoPath™ ensures the tyres will always follow the planted rows and stay off the crop. When harvesting, the combine will always be guided to the correct starting point and the guidance lines will be automatically calculated based on the width of the header.



"The CommandPRO™ is currently the most ergonomic joystick on the market. The joystick is great."

Tractor test 2021, Chamber of Agriculture Lower Saxony (Germany) www.lwk-niedersachsen.de

"The joystick gets top marks from drivers for its ease of use and functionality in day-to-day work."

Profi 07/2022 (www.profi.de)

COMMANDPRO™ JOYSTICK

Mastering the power of the 6R Series tractors is simple with the CommandPRO™ joystick and its 11 reconfigurable buttons. It's the ultimate operator interface for making every working day even more comfortable and productive.

THE ULTIMATE DRIVER INTERFACE

- Set top and zero speeds with one simple push or pull
- Creeping control from 0 to 2 km/h
- Simultaneously active pedal and joystick driving
- ActiveZero function keeps the output speed actively at 0 km/h until the acceleration command is given
- Control ISOBUS implements with CommandPRO™*



SETTINGS MANAGER

Reducing the set-up time for all your applications, the Settings Manager allows you to save machine settings such as engine, SCVs and rear hitch, as well as configuration settings for the electronic and CommandPRO™ joysticks. Instantly access the individual settings for implements or operators and be productive from the moment you take the wheel.

* only available with AUX-NAEF certified ISOBUS implements



1 | Travel set speed buttons 1 and 2

2 | Acceleration response button with three settings

3 | Travel speed adjustment wheel

4 | Activation button

5 | 11 Reconfigurable buttons for:
 – Front/Rear Hitch
 – Front/Rear PTO
 – SCV's
 – iTEC™
 – AutoTrac™
 – ISOBUS functions
 – Engine set speed





DO YOUR BEST WORK EVER

You'll sit down, you will look around and you will know it: I'm going to get things done here. Better, faster, more efficiently. At a quiet 71 dB(A), you'll enjoy our roomy 3.33 m³ cab every time you get in.

1 | DOORS YOU DON'T SEE

Our panorama doors don't look like much. That's a good thing. You'll enjoy the unobstructed view through them. A left-hand side B-post version is also available.



WITH
LEATHER
PACKAGE*



3 | INFOTAINMENT

The 6.5" touchscreen radio works with Apple CarPlay as well as Android Auto and gives a multitude of entertainment options.



4 | DUAL MOTION SEAT

Available as an option, the upper backrest section rotates as drivers turn around, providing back support while enabling enhanced visibility to the rear.

2 | STORAGE TO UNCLUTTER YOUR CAB

Our storage box gives you convenient access to items you want to bring along. Instead of it, we also have a small fridge available that fits the space.

* Includes leather seat, leather instructor seat, leather wrapped steering wheel, carpet floor mat and rear window decal

INTUITIVE CONTROL

COMMANDARM™

The 6R Series makes sophisticated agricultural technology easy to operate. Everything is within easy reach and our touchscreen CommandCenter™ features fluid navigation with shortcuts and context-sensitive help.

4200 DISPLAY

With a 21.3 cm (8.4") touchscreen and one video input, our standard display is one of the most advanced in the industry. It comes with full AEF ISOBUS certification, Remote Display Access, wireless data transfer connectivity to the John Deere Operations Center™, and supports AutoTrac™ and Gen 4 CommandCenter™ Premium.

4600 DISPLAY

The optional 4600 CommandCenter™ features a 26.4 cm (10.4") touchscreen, four video inputs and the option to connect to the Extended Monitor. It supports AutoTrac™, Gen 4 CommandCenter™ Premium and Gen 4 CommandCenter™ Automation to enable the full range of advanced precision agriculture applications.

EASY MENU NAVIGATION

Navigation is easy with a logical menu structure and a comprehensive shortcut bar. With Quick Line you can now record an AB line with just one button press.



EXTENDED MONITOR

The Gen4 Extended Monitor doubles the screen area so you can monitor more functions at once and have direct access to make adjustments when needed. You could, for example, view vehicle control functions on your primary display and Precision Ag applications on the Extended Monitor.



ELECTRONIC JOYSTICK

You will appreciate joystick-reversing and joystick-shifting for an optimal loader experience. The joystick is completely reconfigurable and controls all SCVs, front hitch and even ISOBUS functions.

ISOBUS – AEF CERTIFIED

With Universal Terminal (UT) you can operate your implements, Task Controller Section Control (TC-SC) allows individual control of up to 255 sections. While TC-BAS enables documentation of totals in ISOXML data format, TC-GEO adds the capability for geo-referenced ISOXML documentation. AUX-N provides universal compatibility to the tractor joystick and CommandPRO™.

AEF Certified

ISOBUS



www.aef-isobus-database.org

POWER WITHOUT LIMITS

Get all the power you need with less fuel and lower emissions from our renowned 4.5 l 4 cyl. engine or the 6.8 l 6 cyl. engines (Stage V compliant). All our 6 cyl. engines feature extended drain intervals of up to 750 hours.*

ENGINE RESPONSIVENESS

The diesel particulate filter (DPF) not only traps particles but also improves the transient response for better throttle responsiveness.

COOLED EXHAUST GAS RECIRCULATION (EGR)

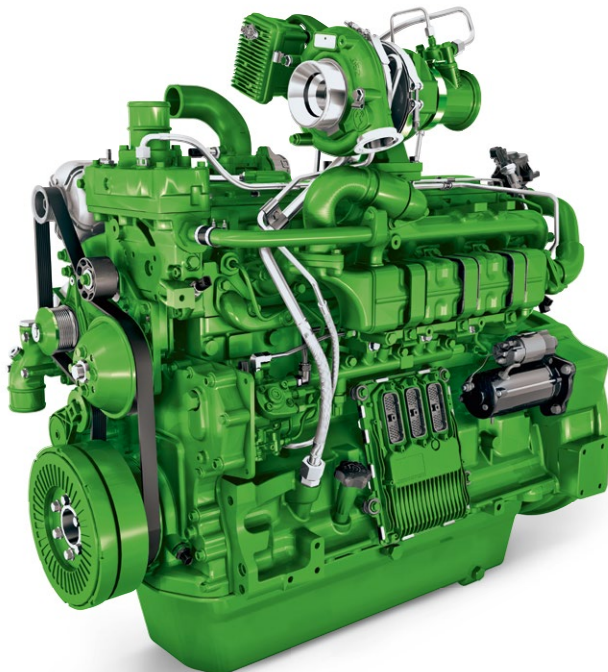
Precise amounts of cooled exhaust gases are mixed with incoming fresh air, lowering combustion temperatures. This leads to less NOx output from the engine and more efficient timing, which promotes both fuel and DEF economy.

SELECTIVE CATALYTIC REDUCTION (SCR)

Diesel exhaust fluid is mixed with engine exhaust gases in the catalyst to further reduce NOx.

SERIES TURBOCHARGERS

The series turbochargers deliver more low-speed torque and engine responsiveness to meet varying load requirements.

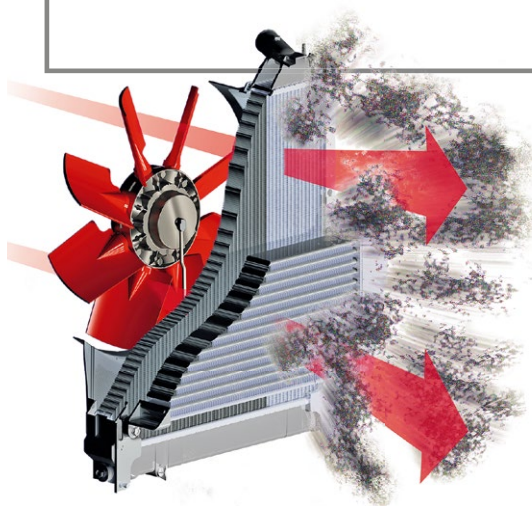
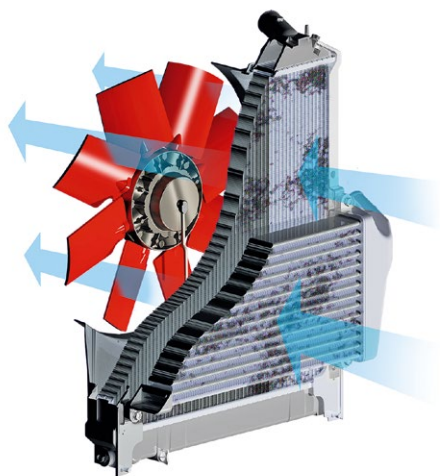


Our 4.5 l PSS engines (6R 110, 6R 120, 6R 130, 6R 140 and 6R 150) use a 2-stage turbocharging system in which the Wastegate turbocharger multiplies the pressure created by a fixed vane turbocharger. This sequential arrangement boosts power to achieve up to 177 hp (max with IPM) in the 6R 150. All 6-cylinder engines feature extended drain intervals of up to 750 hours* and hydraulic IPM.

* with John Deere Plus-50™ II

COOL EFFICIENCY

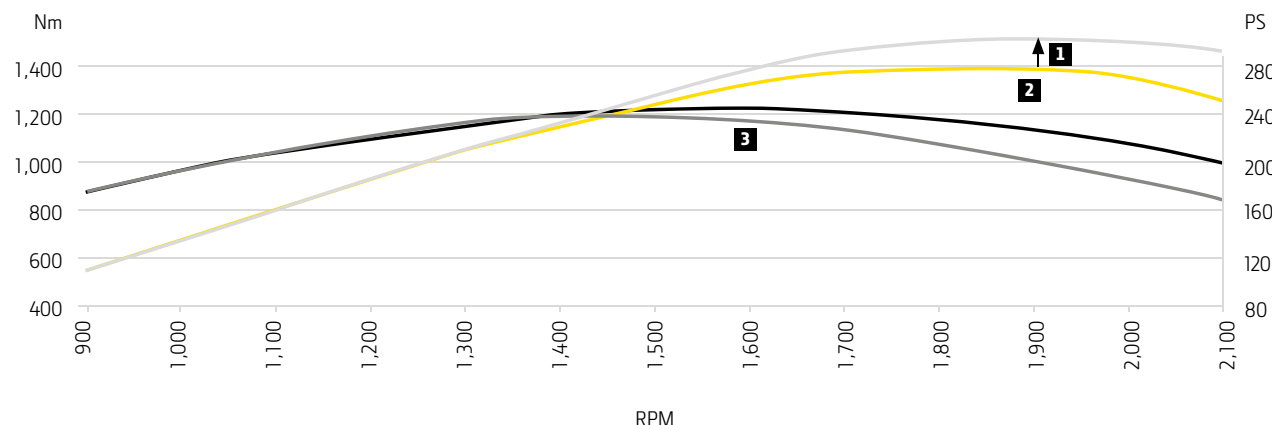
Benefit from lower power consumption with a new reversible fan that keeps the air intake panel at the hood free from debris.



EFFICIENT POWER

The higher power output of our 6-cyl. engines comes from refined 4-valve High Pressure Common Rail technology with injection pressure of up to 2,500 bar. The PVS engine in the 6R 145 – 6R 215 has a Variable Geometry Turbocharger that boosts performance and efficiency across the torque curve. The PSS engines (6230R and 6250R) use a 2-stage turbocharging system in which the VGT multiplies the pressure created by a fixed vane turbocharger.

6R 250



■ Power w/ Boost ■ Power w/o Boost
■ Torque w/ Boost ■ Torque w/o Boost

Intelligent Power Management (1) provides up to 40 additional hp for transport, hydraulic and PTO applications. Max. power (2) and max. torque (3) are achieved at 1,900 and 1,600 rpm respectively to ensure optimum response with low fuel consumption levels.

COMMANDQUAD™ PLUS

COMPELLING CONVENIENCE

Looking for that extra level of operational ease? Say hello to a lot less clutching and experience less tiresome, more productive days in the cab. You'll love the enhanced automatic capabilities of CommandQuad™ Plus.



FULL AUTO MODE

Seamless driving that combines automatic shifting with fuel savings at a high level of convenience.

STOP-AND-GO EASE

The AutoClutch function lets you stop the tractor without pressing the clutch – it makes a huge difference if you do a lot of stop-and-go work.

EFFICIENT MULTI-RANGE SHIFTING

Fully robotised gear and range shifting: no clutching required. Using the double-bump feature, you can shift up one range with a quick double bump (C1 to D1 for example).

ECOSHIFT ALSO AVAILABLE

With a transport speed of 40 km/h, this version fully automatically operates at engine speeds of only 1,670 rpm.

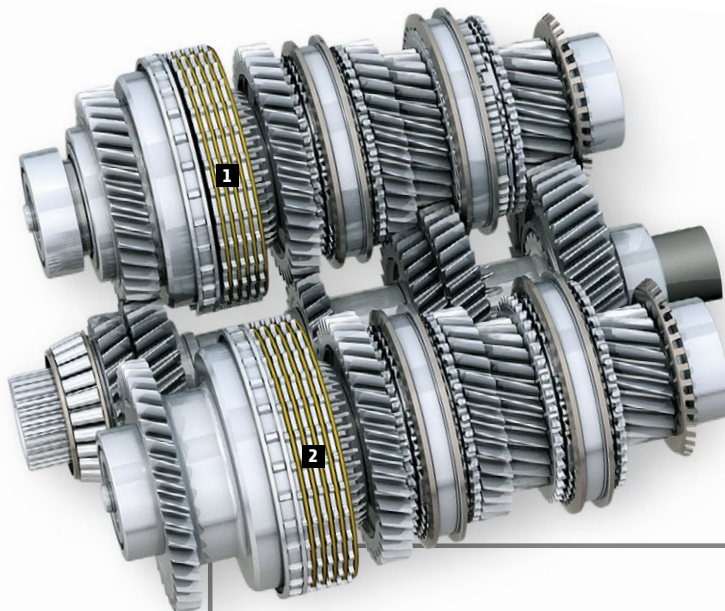
- 1 | Speed wheel
- 2 | Shift lever
- 3 | Automatic mode
- 4 | Manual mode
- 5 | Range selection



DIRECTDRIVE

ADVANCED DUAL CLUTCH TECHNOLOGY

Specifically developed for 6R tractors, DirectDrive is an eight-speed, three-range transmission designed and engineered by John Deere for heavy agricultural work.



- 1 | Clutch 1: Shifting of even gears
- 2 | Clutch 2: Shifting of odd gears

“THANKS TO AUTO CLUTCH, IT IS LIKE DRIVING A CAR WITH AUTOMATIC TRANSMISSION.”

PROFI (JUNE 2019)

SEAMLESS EFFICIENCY

Dual-clutch technology always lines up the next gear so that no momentum is lost during changes – reducing fuel consumption and enhancing ease of operation.

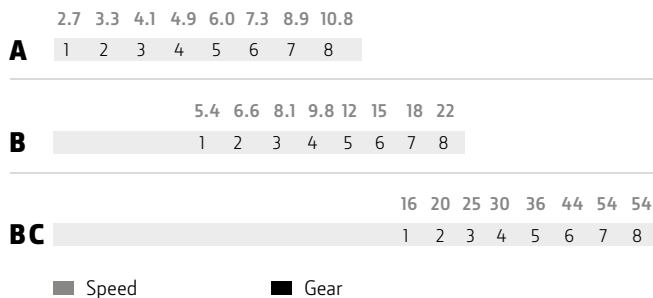
BETTER FUEL ECONOMY

During transport, DirectDrive reduces the engine speed to 1,550 rpm at 40 km/h and 1,600 rpm at 50 km/h for significantly reduced fuel consumption.

STOP-AND-GO EASE

The AutoClutch function lets you stop the tractor without pressing the clutch – it makes a huge difference if you do a lot of stop and go work.

- 1 | Speed wheel
- 2 | Shift lever
- 3 | Automatic mode
- 4 | Manual mode
- 5 | Range selection



DirectDrive offers 11 gears between 4 and 12 km/h thus ensuring the optimum gear/rpm combination regardless of the situation.

AUTOPOWR™

INFINITE SPEED ADJUSTMENT

AutoPowr™ is a hydro-mechanical transmission that delivers stepless and continuous power at speeds between 30 m/h and 50 km/h.



COMFORT

AutoPowr™ maintains the selected speed by automatically responding to changing load conditions.

FUEL ECONOMY

Once running at maximum road speed, engine rpm automatically drops to the minimum level required to maintain that speed – reducing noise and saving fuel. 50 km/h is maintained at 1,630 rpm, 40 km/h at 1,300 rpm with CommandPRO™. AutoPowr™ comes standard in 6R 230 and 6R 250 tractors.

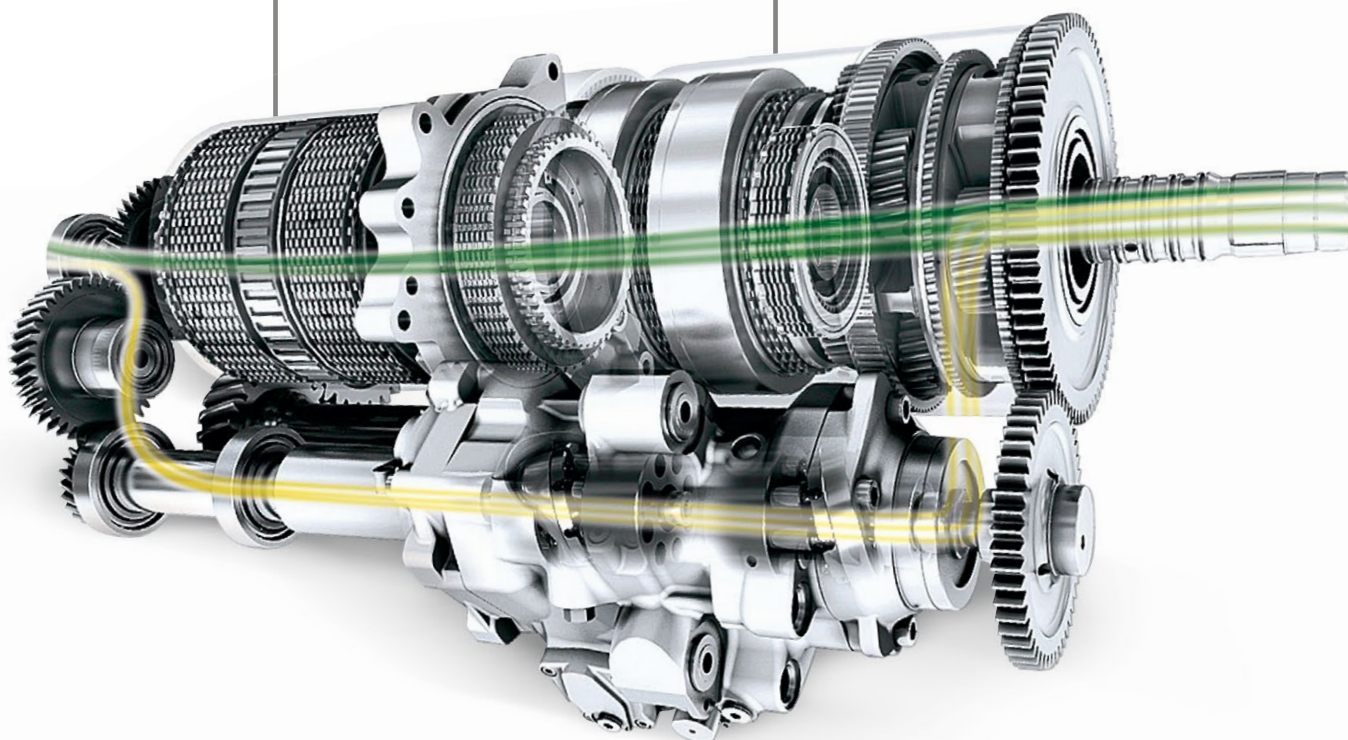
TWO CONTROL LAYOUTS

With AutoPowr™, superior efficiency comes as standard. Controlled with CommandPRO™ it also brings ultimate convenience.

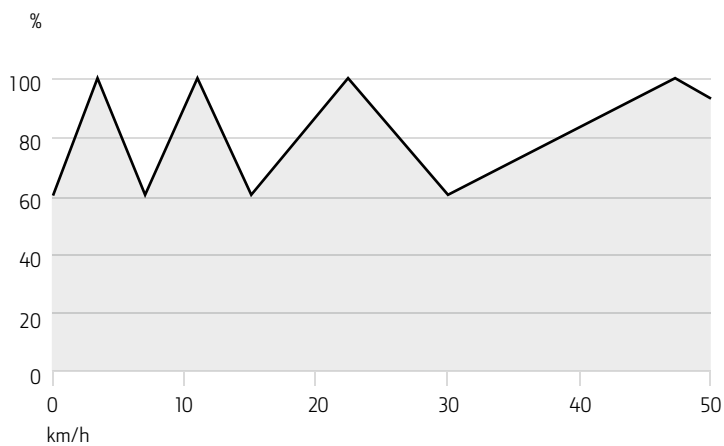


- 1 | Set-speed adjusting wheel
- 2 | Speed band two
- 3 | Speed band one

**FINALLY, ULTIMATE
CONVENIENCE ALSO
MEANS SUPERIOR
EFFICIENCY**



■ Mechanical power
■ Hydrostatic power



MAXIMUM EFFICIENCY

AutoPowr™ delivers 100% mechanical power at the following working speeds: 3.5 km/h (heavy draft), 11 km/h (light draft), 22.5 km/h (heavy transport) and 47.2 km/h (light transport). This results in superb transmission efficiency, close to that of mechanical transmissions. In fact, AutoPowr™ is always using more than 60% of the available mechanical power.



LIGHT UP THE NIGHT

Nature has never respected normal working hours. Keep your operations productive even at night, with 360° visibility provided by up to 12 cab lights.

PRE-SETS FOR PRODUCTIVITY

Programming the Generation 4 CommandCenter™ for perfect night work lighting couldn't be easier.

Working after dark is nothing new to you, but now you can see your fields in a whole new light. Our factory-installed lighting packages cast the best light to work by all around your 6R Series. Or make working the night shift more productive than ever with our LED lighting packages. They consume less power, deliver brighter, daylight quality light and go the distance.



SELECT LIGHT PACKAGE

- 1 | Six front grill-mounted halogen lights
- 2 | Eight cab roof mounted halogen lights
- 3 | Two beltline mounted turn lights
- 4 | Two fender mounted brake and turn lights

PREMIUM LIGHT PACKAGE

- 1 | Six front grill-mounted halogen lights
- 2 | Twelve cab roof mounted halogen lights (ten if combined with panorama roof selected)
- 3 | Two beltline mounted turn lights
- 4 | Two fender mounted brake and turn lights
- 5 | Two fender mounted halogen lights
- 6 | Footsteps lights on both sides

ULTIMATE LIGHT PACKAGE

Same number of lights as in premium package. Halogen lights replaced by LED (2 low beam road lights).

OPTIONAL

- 7 | Two belt line work lights (Halogen or LED)
- 8 | Two Belt line road lights (H4)
- 9 | Single or dual beacon

Work lights are cleverly integrated into the front, rear and sides of the roofline to prevent damage from low branches.



GREAT RIDE, ALL THE POWER

The Triple Link Suspension Plus not only guarantees optimum traction and field performance, it also applies up to 10% more power to the ground.

It also ensures higher operator comfort, reduces operator fatigue and increases productivity, while Variable Ratio Steering improves in-field manoeuvrability.



Variable Ratio Steering off

Variable Ratio Steering on

VARIABLE RATIO STEERING

Improves operator comfort, requiring less hand movement and less steering effort when turning on the headland or working with a loader in confined spaces. The resulting faster turning of the steering wheel increases hydraulic flow, leading to quicker response of the tyres. Available for all 6R models.



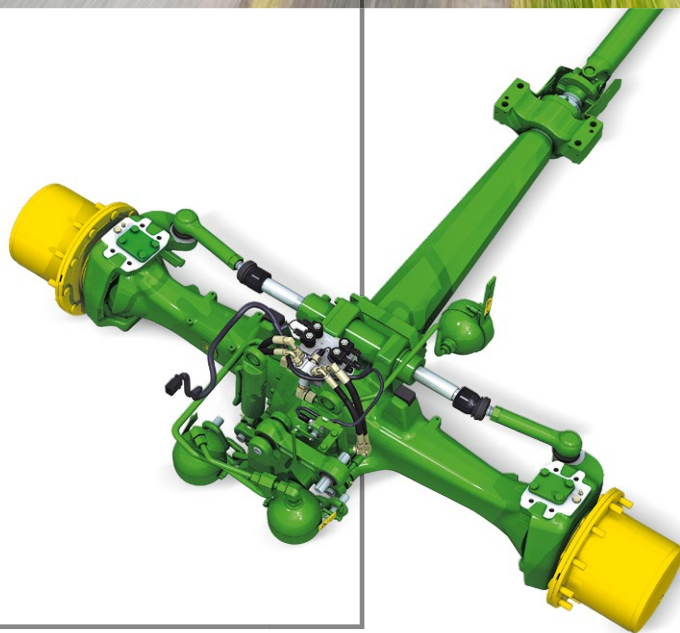
ENHANCED OPERATOR COMFORT

The intelligent hydro-pneumatic cab suspension (HCS Plus) offers more driving comfort in the field and on the road. Input from the acceleration and TLS™ sensor causes the cab suspension controller to increase or decrease the amount of oil in the shock absorber ram. This semi-active system delivers ultimate comfort in every situation.



ADAPTIVE FRONT AXLE

The self-levelling TLS™ Plus automatically adjusts sensitivity and suspension rate, and synchronises with hitch sensing to compensate power hop under heavy pull conditions.



GET HITCHED TO PRODUCTIVITY

Experience the fusion of big pulling power with versatility across a broad variety of applications. 6R tractors offer a wide range of hitch, PTO and drawbar options, with all hitch parameters easily controlled from the CommandCenter™.

REAR PTO CHOICES

An independent 3-speed electrically shifted rear PTO is standard on all 6R tractors. Choose between the 540/540E/1000 and the 540E/1000/1000E – now available for all 6Rs.



POWERFUL HITCH OPTIONS

6R tractors offer a variety of rear hitch options to complement application needs all the way up to 9,900 kg of pure lifting power.



Automatic and mechanical trailer hitch with 38 mm ball-pin



Piton fix hitch



Ball-type hitch



Forced Steering System



AUTOMATIC TRAILER HITCH

Makes attaching implements much more convenient compared to manual wagon hitches.

BALL-TYPE AND PITON FIX HITCHES

Fulfilling all customer requirements, these hitches provide optimum traction and driving dynamics for tractor/trailer combinations.

FORCED STEERING SYSTEM

For even higher versatility our hitches can also be equipped with a forced steering system to operate large trailers with steering axles (attachment only).



BIG FRONT HITCH LIFT

Also available: a fully integrated front hitch with up to 5,000 kg maximum lift capacity. Plus, the 6R can also be ordered with an iTEC™ capable front PTO.

SMARTER HYDRAULICS

There's plenty of power to go around with the closed-centre, pressure and flow-compensated hydraulic system.



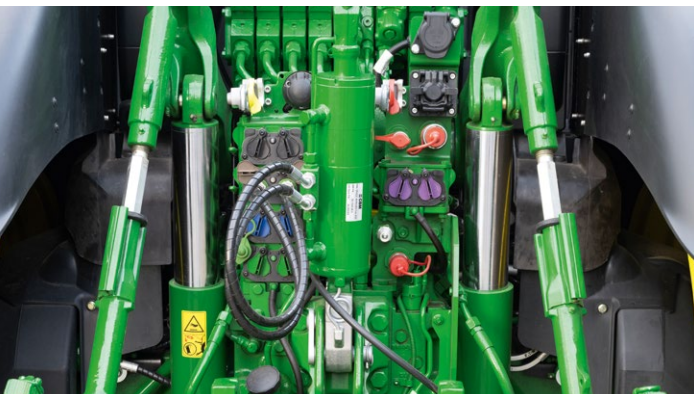
Hydraulic IPM has been nominated by the jury of the Elmia Landbruk Innovation Award 2022

HYDRAULIC IPM

As a supplement to PTO and transport applications, Intelligent Power Management now also delivers additional horsepower for hydraulic driven implements. The hydraulic IPM keeps tractor wheel speed constant during applications that use power-hungry hydraulically driven implements, like slurry tankers, sprayers, or manure spreaders.



Depending on power demand, up to 40 additional hp for hydraulic applications get released with IPM.



SCVS APLENTY

In a 6R you get up to six electro-hydraulic selective control valves (SCVs) – with pressure relief lever, logically clustered, and all iTEC™ capable. You can easily control flow rates and times from the cab with the CommandCenter™.



POWER BEYOND

Power Beyond auxiliary hydraulic connections provide live hydraulic power to equipment. This enables the supply of hydraulic oil to implements with their own control valves or hydraulic motors (for example, on large air seeders or on planters). The system includes one motor return coupler, one flat-face sump coupler, one Power Beyond pressure coupler and one load sense coupler.



FRONT SCVS

For your hydraulic power requirements at the front, the front hitch can be ordered with up to two iTEC™ capable SCVs.

HYDRAULIC PUMPS

Definitely located at the upper end of the performance spectrum, the hydraulic pump of the 6R 230 and 6R 250 delivers an impressive flow of up to 195 l/min. All other models still produce a strong 114 l/min flow, and an optional 155 l/min pump is also available.

	114 L/MIN	155 L/MIN	195 L/MIN
6R 110 – 6R 120	■	–	–
6R 130 – 6R 215	■	□	–
6R 230 – 6R 250	–	–	■

■ base □ optional – not available

MAXIMISE YOUR DAY

FRONT LOADERS

Easy and quick to mount, our loaders are built for productivity – with perfect visibility and practically no maintenance. Whatever your needs, you'll find the right one right here.

John Deere R Series front loaders have our automatic latch designs, making the installation of loader and implements as easy as click & go. Our optional technology package boosts your productivity thanks to Return-to-Position, and further enhances precision with dynamic weighing, while preventing material losses thanks to the electronic Level-to-Horizon feature. If you are looking for a light loader for occasional use, opt for our M Series loaders.



RETURN-TO-POSITION

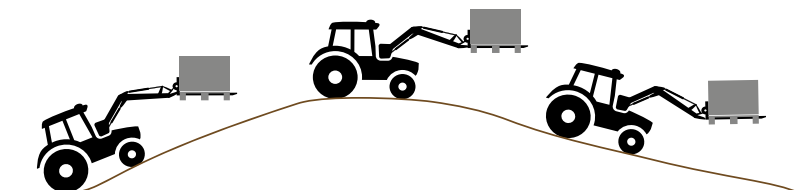
Boost your productivity for repetitive tasks. With Return-to-Position you can save up to four implement positions for quick and comfortable recall with the joystick.

DYNAMIC WEIGHING

Enhance your precision on the go: Our dynamic weighing system enables you to fill the bucket to the exact desired weight and lets you create step by step wagon-filling recipes.

LEVEL-TO-HORIZON

Prevent material losses while keeping your speed. The Level-to-Horizon feature keeps the implement levelled in uneven terrain.





BORN TO PERFORM

The 6R delivers a new level of performance. Its advanced Pressure and Flow Compensated (PFC) hydraulic system produces a flow of up to 155 l/min for more power and faster cycle times than you have ever experienced before in this tractor class.

ELECTRONIC JOYSTICK WITH REVERSER

Easily the most comfortable way to operate a front loader: the new reverser on the joystick lets you change the tractor's direction with the push of a button and shift gears on buttons 5 or 6.



- 1 | Loader suspension system (default assignment)
- 2 | Lock/unlock joystick
- 3 | Rocker switch for three independent function operations
- 4 | Reverser
- 5 | Gearshift button, upshift (default assignment)
- 6 | Gearshift button, downshift (default assignment)
- 7 | First diverter button (default assignment)
- 8 | Second diverter button (default assignment)
- 9 | Record weighing (default assignment)

TRACTOR/LOADER COMPATIBILITY

Four R Loader models are available for the 6R tractors.

	623R	643R	663R	683R
6R 110-6R 150	■	■	-	-
6R 145-6R 185	-	■	■	-
6R 175-6R 215	-	-	■	■
6R 230, 6R 250	-	-	-	■

TOTAL LIFETIME CARE

UPTIME

Our comprehensive package of industry-leading support services pays off twice. First, it keeps your tractor running as strong as on the day it left the factory. Second, a well-maintained older machine will fetch a higher resale price.¹



PREVENT

Services to keep your tractor running at peak performance, with a higher resale value.

POWERGARD™

Full cost control, protection from surprise expenses and inflation for up to 8 years/8,000 hours, and a 3-5% higher residual value².

EXPERT CHECK

Comprehensive inspection service which reduces the risk of unexpected downtime and potentially higher secondary damage.



PREDICT

Fixing issues before they can stop you working in the field.

UPTIME EXPERT ALERTS

Automatic monitoring uses artificial intelligence to predict faults and fix them before they happen.

PERFORMANCE EXPERT ALERTS

Machine data analysis identifies underperformance and provides corrective measures to save time and optimise tractor settings.



CORRECT

Rapid repair and support to minimise downtime.

CONNECTED SUPPORT

Remote in-field dealer support via Remote Display Access and ServiceAdvisor Remote.

24/7 FACTORY SUPPORT & PARTS DELIVERY

Our certified dealer service technicians use our latest customer support tools and the global service parts network to fix any issue as fast as possible.



UPGRADE

Improvements that keep your tractor up-to-date throughout its lifetime.

TECHNOLOGY UPGRADES

Just as on your mobile phone, tractor software updates can be performed over the air, so your tractor is always up to date.

¹Up to 80% of customers confirm that 1-5% higher resale prices can be achieved with a "very well maintained" machine (Internal customer research conducted by John Deere in spring 2022).

²Based on dealer acquisition and feedback from customers.



POWERGARD™

STATUS: PROTECTED



When you protect your equipment with a PowerGard™ Protection plan³, your business has the steady machine uptime and nonstop peak performance it needs to thrive.

A PowerGard™ Protection plan³ covers the components that put power to the ground. Take that coverage even further with a PowerGard™ Protection Plus plan to add engine auxiliaries, electrical system, hydraulic system, and operator's station to the coverage.

**UP TO
8 YEARS / 8,000 HOURS⁴**

100%

**SERVICE COST
CONTROL**

0%

**SERVICE COST
INFLATION**

HIGHER

RESALE VALUE

UPTIME

IN THE FIELD

³At participating dealers only. Requires a maintenance plan.
⁴For 6R Large-Frame Tractors and Xtra-Large Frame Tractors.

SPECIFICATIONS

MODEL	6R 110	6R 120	6R 130	6R 140	6R 150
ENGINE					
MAX ENGINE POWER (ECE-R120), HP (KW)	121 (89)	132 (97)	143 (105)	154 (113)	165 (121)
MAX ENGINE POWER WITH IPM (ECE-R120), HP (KW)	135 (99)	145 (107)	156 (115)	166 (122)	177 (130)
Rated power (ECE-R120), hp (kW)	110 (81)	120 (88)	130 (96)	140 (103)	150 (110)
Rated power with IPM (ECE-R120) @ 2,100 rpm, hp (kW)	130 (96)	140 (103)	150 (110)	160 (118)	170 (125)
Constant power range, rpm	2,100 - 1,500				
Torque rise, percentage	40				
Maximum torque, Nm (at 1,600 engine rpm) – without boost	515	562	609	656	702
Maximum torque, Nm (at 1,600 engine rpm) – with boost	543	585	627	669	711
Rated speed, rpm	2,100				
Manufacturer	John Deere Power Systems				
Type	PowerTech™ PSS				
Aftertreatment	Lifetime Diesel Particulate Filter (DPF), Diesel Oxidation Catalyst (DOC) and Selective Catalytic Reduction (SCR) using DEF				
Engine air filter	PowerCore® air filter with pre-cleaning				
Aspiration	Dual turbochargers, wastegate turbo with fixed geometry turbo in series				
Cylinders/Displacement	4/4.5 l				
Cooling system	Stacked cooling system				
Fuel injection system & control	High pressure common rail system with up to 2,000 bar injection pressure, electronically controlled				
TRANSMISSIONS					
AUTOQUAD™ PLUS					
20/20 2.7 - 40 km/h	–	–	–	–	–
24/24 1.8 - 40 km/h	■	■	■	■	–
20/20 2.7 - 50 km/h	–	–	–	–	–
24/24 1.8 - 50 km/h	■	■	■	■	–
AUTOQUAD™ PLUS ECOSHIFT					
20/20 2.7 - 40 km/h	–	–	–	–	–
24/24 1.8 - 40 km/h	■	■	■	■	–
Creeper (AutoQuad™ Plus and AutoQuad™ Plus Ecoshift)	■	■	■	■	–
COMMANDQUAD™ PLUS					
24/24 1.8 - 40 km/h	■	■	■	■	–
24/24 1.8 - 50 km/h	■	■	■	■	–
COMMANDQUAD™ PLUS ECOSHIFT					
24/24 1.8 - 40 km/h	■	■	■	■	–
AUTOPOWR™					
0.03 - 40 km/h	■	■	■	■	■
0.03 - 50 km/h	■	■	■	■	■
AXLES					
Suspended front axle (option)	Triple Link Suspension (TLS™ Plus) MFWD Axle, hydro-pneumatic, permanently active, triple link, self-levelling, load adjusting suspension				
Suspension range with TLS™ Plus	100 mm suspension range				
Engagement front differential lock	Self-locking differential				
Engagement rear differential lock	Electro-hydraulic with oil cooled clutch				
Rear axle	Flange or R&P axle				
STEERING					
Type	Hydrostatic, Variable Ratio Steering optional				
HYDRAULIC SYSTEM					
Type	Pressure & Flow Compensated (PFC) system with load sensing function				
Flow at rated engine speed base/option, l/min	114		114/155		
Selective control valves	Up to 5+3				
Power beyond	Optional				
Oil take out capacity with overfill, l	25				
Oil take out capacity with additional oil reservoir, l	32				

MODEL	6R110	6R120	6R130	6R140	6R150
3-POINT HITCH – REAR					
Type	Electronic lower link sensing; load & depth control, infinite mix, float				
Category	II/IIIN		IIIN		
Maximum lift capacity at hooks, kg			6,800		
Lift capacity through full lift range (OECD 610 mm), kg			4,350		
Lift capacity through full lift range (OECD 1,800 mm), kg			2,660		
3-POINT HITCH – FRONT, OPTIONAL					
Type	Front hitch controlled by rear SCV (Select option) or dedicated SCV (Premium or Ultimate option)				
Category			IIIN		
Maximum lift capacity at hooks, kg			4,000		
Lift capacity through full lift range (OECD at the hooks), kg			3,300		
REAR PTO					
Type	Electro-hydraulically engaged, oil cooled, multi-disc design				
Engine rpm at rated PTO speeds with 540/540E/1,000 option			1,967/1,496/1,962		
Engine rpm at rated PTO speeds with 540E/1,000/1,000E option			1,565/1,967/1,655		
FRONT PTO, OPTIONAL					
Type	Electro-hydraulically engaged, oil cooled				
Engine speed at rated PTO speed (1,000), rpm			1,969		
CAB					
Specifications	ComfortView™ cab with 2 panorama doors or B-Post on left hand side and Generation 4 CommandCenter™ Display				
Suspension (option)	Adaptive hydraulic cab suspension HCS Plus				
Noise level at operator's ear, dB(A)			71		
Cab glass area, m ²			6.11		
Cab volume, m ³			3.33		
Display	Generation 4 CommandCenter™ 4200 8.4" or 4600 10.4" Display				
MISCELLANEOUS					
AutoTrac™ Ready			Optional		
ISOBUS ready			Optional		
CommandCenter™ video inputs			1 input for 4200 8.4" Display, 4 inputs for 4600 10.4" Display		
Immobiliser			Optional		
Trailer brake systems (options)	Hydraulic and/or pneumatic system				
Pneumatic trailer brake system (option)	Hydraulic retarding valve, air drier included				
FARMSIGHT™ SERVICES					
JDLink™			In Base		
Remote Machine Monitoring (incl. Expert Alerts)			In Base		
CAPACITIES					
Fuel tank (base/option), l			199/225		
DEF, l			13.5		
Engine coolant, l			22		
DIMENSIONS AND WEIGHTS					
Wheelbase, mm			2,580		
Width × Height × Length, mm			2,430 × 2,910 × 4,540		
<i>Measured with flanged axle, up to cab roof, from front weight support to horizontal draft link hooks and with max. front tyres / max. rear tyre sizes</i>					
Ground clearance, mm	481		506		
<i>Measured at centre of front axle, using max. front and max. rear tyre sizes</i>					
Shipping weight, kg			6,500		
<i>Measured with average specifications</i>					
Maximum permissible gross weight, kg			10,450		
TYRE SIZES					
Front tyre sizes, max. available	520/60R28		540/65R28		
Rear tyre sizes, max. available	650/60R38		650/65R38		

SPECIFICATIONS

MODEL	6R145	6R155	6R165	6R185
ENGINE				
MAX ENGINE POWER (ECE-R120), HP (KW)	160 (117)	171 (125)	182 (133)	204 (150)
MAX ENGINE POWER WITH IPM (ECE-R120), HP (KW)	192 (141)	203 (149)	213 (157)	234 (172)
Rated power (ECE-R120), hp (kW)	145 (107)	155 (114)	165 (121)	185 (136)
Rated power with IPM (ECE-R120) @ 2,100 rpm, hp (kW)	185 (136)	195 (143)	205 (151)	225 (165)
Constant power range, rpm	2,100 - 1,500			
Torque rise, percentage	40			
Maximum torque, Nm (at 1,600 engine rpm) – without boost	679	726	773	866
Maximum torque, Nm (at 1,600 engine rpm) – with boost	773	815	842	941
Rated speed, rpm	2,100			
Manufacturer	John Deere Power Systems			
Type	PowerTech™ PVS			
Aftertreatment	Lifetime Diesel Particulate Filter (DPF), Diesel Oxidation Catalyst (DOC) and Selective Catalytic Reduction (SCR) using DEF			
Engine air filter	PowerCore® air filter with pre-cleaning			
Aspiration	Single variable geometry turbocharger			
Cylinders/Displacement	6/6.8 l			
Cooling system	Stacked cooling system		Distributed cooling system with temperature controlled viscous fan drive and dedicated fan for charge air cooling	
Fuel injection system & control	High pressure common rail system with up to 2,500 bar injection pressure, electronically controlled			
TRANSMISSIONS				
AUTOQUAD™ PLUS				
20/20 2.7 - 40 km/h	■	■	–	–
24/24 1.8 - 40 km/h	–	–	–	–
20/20 2.7 - 50 km/h	■	■	–	–
24/24 1.8 - 50 km/h	–	–	–	–
AUTOQUAD™ PLUS ECOSHIFT				
20/20 2.7 - 40 km/h	■	■	–	–
24/24 1.8 - 40 km/h	–	–	–	–
Creeper (AutoQuad™ Plus and AutoQuad™ Plus Ecoshift)	■	■	–	–
DIRECTDRIVE				
24/24 2.8 - 40 km/h	■	■	■	–
24/24 2.8 - 50 km/h	■	■	■	–
AUTOPOWR™				
0.03 - 40 km/h	■	■	■	■
0.03 - 50 km/h	■	■	■	■
AXLES				
Suspended front axle (option)	Triple Link Suspension (TLS™ Plus) MFWD Axle, hydro-pneumatic, permanently active, triple link, self-levelling, load adjusting suspension			
Suspension range with TLS™ Plus	100 mm suspension range			
Engagement front differential lock	Self-locking differential			
Engagement rear differential lock	Electro-hydraulic with oil cooled clutch			
Rear axle	Flange or R&P axle			
STEERING				
Type	Hydrostatic, Variable Ratio Steering optional			

MODEL	6R145	6R155	6R165	6R185
HYDRAULIC SYSTEM				
Type	Pressure & Flow Compensated (PFC) system with load sensing function			
Flow at rated engine speed base/option, l/min	114/155			
Selective control valves	Up to 6+3			
Power beyond	Optional			
Oil take out capacity with overfill, l	39			
Oil take out capacity with additional oil reservoir, l	45			
3-POINT HITCH – REAR				
Type	Electronic lower link sensing; load & depth control, infinite mix, float			
Category	III/IIIN			
Maximum lift capacity at hooks, kg	8,100			
Lift capacity through full lift range (OECD 610 mm), kg	4,200			
Lift capacity through full lift range (OECD 1,800 mm), kg	3,200			
3-POINT HITCH – FRONT, OPTIONAL				
Type	Front hitch controlled by rear SCV (Select option) or dedicated SCV (Premium or Ultimate option)			
Category	IIIN			
Maximum lift capacity at hooks, kg	4,000			
Lift capacity through full lift range (OECD at the hooks), kg	3,300			
REAR PTO				
Type	Electro-hydraulically engaged, oil cooled, multi-disc design			
Engine rpm at rated PTO speeds with 540/540E/1,000 option	1,987/1,753/2,000			
Engine rpm at rated PTO speeds with 540E/1,000/1,000E option	1,567/1,970/1,657			
FRONT PTO, OPTIONAL				
Type	Electro-hydraulically engaged, oil cooled			
Engine speed at rated PTO speed (1,000), rpm	1,969			
CAB				
Specifications	ComfortView™ cab with 2 panorama doors or B-Post on left hand side and Generation 4 CommandCenter™ Display			
Suspension (option)	Adaptive hydraulic cab suspension HCS Plus			
Noise level at operator's ear, dB(A)	71			
Cab glass area, m ²	6.11			
Cab volume, m ³	3.33			
Display	Generation 4 CommandCenter™ 4200 8.4" or 4600 10.4" Display			
MISCELLANEOUS				
AutoTrac™ Ready	Base			
ISOBUS ready	Base			
CommandCenter™ video inputs	1 input for 4200 8.4" Display, 4 inputs for 4600 10.4" Display			
Immobiliser	Optional			
Trailer brake systems (options)	Hydraulic and/or pneumatic system			
Pneumatic trailer brake system (option)	Hydraulic retarding valve, air drier included			
FARMSIGHT™ SERVICES				
JDLink™	In Base			
Remote Machine Monitoring (incl. Expert Alerts)	In Base			
CAPACITIES				
Fuel tank (base/option), l	280/322			
DEF, l	16			
Engine coolant, l	27.4			
DIMENSIONS AND WEIGHTS				
Wheelbase, mm	2,765			
Width × Height × Length, mm	2,490 × 2,950 × 4,930			
<i>Measured with flanged axle, up to cab roof, from front weight support to horizontal draft link hooks and with max. front tyres / max. rear tyre sizes</i>				
Ground clearance, mm	553			
<i>Measured at centre of front axle, using max. front and max. rear tyre sizes</i>				
Shipping weight, kg	7,900			
<i>Measured with average specifications</i>				
Maximum permissible gross weight, kg	11,750			
TYRE SIZES				
Front tyre sizes, max. available	600/65R28			
Rear tyre sizes, max. available	710/70R38			

SPECIFICATIONS

MODEL	6R 175	6R 195	6R 215	6R 230	6R 250
ENGINE					
MAX ENGINE POWER (ECE-R120), HP (KW)	193 (142)	215 (158)	237 (174)	253 (186)	275 (202)
MAX ENGINE POWER WITH IPM (ECE-R120), HP (KW)	223 (164)	244 (180)	259 (190)	281 (206)	301 (222)
Rated power (ECE-R120), hp (kW)	175 (129)	195 (143)	215 (158)	230 (169)	250 (184)
Rated power with IPM (ECE-R120) @ 2,100 rpm, hp (kW)	215 (158)	235 (173)	255 (188)	270 (199)	290 (213)
Constant power range, rpm	2,100 - 1,500				
Torque rise, percentage	40				
Maximum torque, Nm (at 1,600 engine rpm) – without boost	819	913	1,007	1,077	1,171
Maximum torque, Nm (at 1,600 engine rpm) – with boost	899	982	1,025	1,129	1,212
Rated speed, rpm	2,100				
Manufacturer	John Deere Power Systems				
Type	PowerTech™ PVS			PowerTech™ PSS	
Aftertreatment	Lifetime Diesel Particulate Filter (DPF), Diesel Oxidation Catalyst (DOC) and Selective Catalytic Reduction (SCR) using DEF				
Engine air filter	PowerCore® air filter with pre-cleaning			External A-Post Filter with pre-cleaning	
Aspiration	Single variable geometry turbocharger			Dual turbochargers, variable geometry turbo with fixed geometry turbo in series	
Cylinders/Displacement	6/6.8 l				
Cooling system	Distributed cooling system with temperature controlled viscous fan drive and dedicated fan for charge air cooling			Distributed cooling system with temperature controlled electric fan drive and dedicated fan for charge air cooling	
Fuel injection system & control	High pressure common rail system with up to 2,500 bar injection pressure, electronically controlled				
TRANSMISSION					
AUTOQUAD™ PLUS					
20/20 2.7 - 40 km/h	■	■	■	–	–
20/20 2.9 - 50 km/h	■	■	■	–	–
AUTOQUAD™ PLUS ECOSHIFT					
20/20 2.9 - 40 km/h	■	■	■	–	–
DIRECTDRIVE					
24/24 2.7 - 40 km/h	■	■	■	–	–
24/24 2.7 - 50 km/h	■	■	■	–	–
AUTOPOWR™					
0.03 - 40 km/h	■	■	■	■	■
0.03 - 50 km/h	■	■	■	■	■
AXLES					
Suspended front axle	Triple Link Suspension (TLS™ Plus) MFWD Axle in base; hydro-pneumatic, permanently active, triple link, self-levelling, load adjusting suspension			Braked Triple Link Suspension (TLS™ Plus) MFWD Axle in base; hydro-pneumatic, permanently active, triple link, self-levelling, load adjusting suspension	
Suspension range with TLS™ Plus	100 mm suspension range				
Engagement front differential lock	Self-locking differential; 100% differential lock optional			100% differential lock in base	
Engagement rear differential lock	Electro-hydraulic with oil cooled clutch				
Rear axle	Flange axle or rack & pinion axle				
STEERING					
Type	Hydrostatic, Variable Ratio Steering optional				
HYDRAULIC SYSTEM					
Type	Pressure & Flow Compensated (PFC) system with load sensing function				
Flow at rated engine speed base/option, l/min	114/155			195	
Selective control valves	Up to 6+3				
Power beyond	Optional				
Oil take out capacity with overfill, l	47				
Oil take out capacity with additional oil reservoir, l	55			80	

MODEL	6R 175	6R 195	6R 215	6R 230	6R 250
3-POINT HITCH – REAR					
Type	Electronic lower link sensing; load & depth control, infinite mix, float				
Category	III/IIIN				
Maximum lift capacity at hooks, kg	9,550			10,400	
Lift capacity through full lift range (OECD 610 mm), kg	5,450			7,000	
Lift capacity through full lift range (OECD 1,800 mm), kg	3,800			4,300	
3-POINT HITCH – FRONT, OPTIONAL					
Type	Front hitch controlled by rear SCV (Select option) or dedicated SCV (Premium or Ultimate option)			Front hitch controlled by dedicated SCV in base	
Category	IIIN				
Maximum lift capacity at hooks, kg	4,000			5,900	
Lift capacity through full lift range (OECD at the hooks), kg	3,300			4,400	
REAR PTO					
Type	Electro-hydraulically engaged, oil cooled, multi-disc design				
Engine rpm at rated PTO speeds with 540/540E/1,000 option	1,950/1,721/1,950				
Engine rpm at rated PTO speeds with 540E/1,000/1,000E option	1,761/1,989/1,756			1,618/2,012/1,659	
FRONT PTO, OPTIONAL					
Type	Electro-hydraulically engaged, oil cooled				
Engine speed at rated PTO speed (1,000), rpm	1.969			1.965	
CAB					
Specifications	ComfortView™ cab with 2 panorama doors or B-Post on left hand side and Generation 4 CommandCenter™ Display				
Suspension (option)	Adaptive hydraulic cab suspension HCS Plus				
Noise level at operator's ear, dB(A)	71				
Cab glass area, m²	6.11				
Cab volume, m³	3.33				
Display	Generation 4 CommandCenter™ 4200 8.4" or 4600 10.4" Display				
MISCELLANEOUS					
AutoTrac™ Ready	Base			Base	
ISOBUS ready	Base			Base	
CommandCenter™ video inputs	1 input for 4200 8.4" Display, 4 inputs for 4600 10.4" Display				
Immobiliser	Optional				
Trailer brake systems (options)	Hydraulic and/or pneumatic system				
Pneumatic trailer brake system (option)	Hydraulic retarding valve, air drier included				
FARMSIGHT™ SERVICES					
JDLINK™	In Base				
Remote Machine Monitoring (incl. Expert Alerts)	In Base				
CAPACITIES					
Fuel tank (base /option), l	324/421			410/470	
DEF, l	20			25	
Engine coolant, l	28			34	
DIMENSIONS AND WEIGHTS					
Wheelbase, mm	2,800			2,900	
Width × Height × Length, mm	2,550 × 3,160 × 5,050			2,550 × 3,250 × 5,190	
<i>Measured with flanged axle, up to cab roof, from front weight support to horizontal draft link hooks and with max. front tyres / max. rear tyre sizes</i>					
Height from centre of rear axle to top of cab (no beacon light), mm	2,183			2,273	
Turning radius, m	5.62			6.32	
<i>According to ISO789-3 measured for 600/65R30 at 2,050 mm tread setting and 1.6 bar inflation pressure on level ground</i>					
Shipping weight, kg	8,800			9,650	
<i>Measured with average specifications</i>					
Maximum permissible gross weight, kg	13,450			15,000	
TYRE SIZES					
Front tyre sizes, max. available	600/70 R28			600/70R30	
Rear tyre sizes, max. available	800/70R38				

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