

MOVE MORE, FASTER

Low weight, high horsepower: That's responsive acceleration and exceptional agility. When you need to haul a lot, do it often, and want to do it faster, there's no better choice than the 7R.

CONTENTS

	OVERVIEW	
	7R	6
T	POWER & EFFICIENCY	
	Drivetrain Efficiency	10
	Engine	12
	Transmissions	14
	CommandPRO™	18
⅌	CAB COMFORT	
	Cab	20
	Visibility	24
	Ride comfort	28
	Infotainment	30
	CommandARM™	32

	PRECISION FARMING	
	StarFire™ Receiver Options	34
	CommandCenter™ AutoTrac™	36
	CommandCenter™ Premium	38
	CommandCenter™ Automation	40
•		
#	VERSATILITY	
	Hydraulics and PTO	42
	Hitch Options	44
	Ballasting	46
<u></u>	COMPLETE SOLUTION	
	FarmSight™ Services	48
	John Deere Connected Support™	49
	PowerGard [™]	50
	SPECIFICATIONS	
	Specifications	E 2
	specifications	52





GENERATION 2

QUALITY FIRST

With the development of the next generation 7R one thing stood first. Quality.

Providing maximum uptime guided our every decision about working with suppliers, designing components, selecting, processing, assembling and testing materials. Major investments into smart tooling and automation eliminate every last inconsistency while last but not least, with Connected Support we're now faster than ever in finding, resolving, and validating issues. Expect unmachted reliability from the start.





THE PERFECT FIT FOR CONTRACTORS

With up to 388 hp and a power to weight ratio of only 29 kg/hp, the next generation 7R allows you to move more, faster and with superior efficiency. For heavy draft applications in the field, within seconds you can add 3.5 t (EZ Ballast & Front Weight) out of the cab. That is true versatility.





COMMANDPRO[™]

The CommandPRO $^{\rm m}$ is the next generation operator interface and gives you the best control money can buy. The ergonomic design, the reconfigurability and unique drive strategy have made it a true success story.



NEXT GENERATION CAB

The next generation cab plays in its own league. Even bigger, even quiter and with a number of luxury features new to the industry. The new seat with 2-zone massage is just one example to give you a taste.

7R TRACTORS

POWER DENSITY

Its low overall machine weight and high horsepower rating give the 7R its exceptional power density. This agile tractor not only accelerates your hauls, it will move your business ahead.

A | WHEELBASE

2,925 mm

B | OVERALL LENGTH

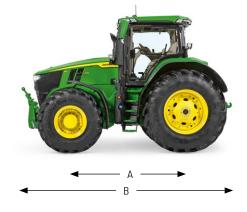
5,910 mm, measured from rear hitch to front hitch

C | TOTAL HEIGHT

3,494 mm, measured from the ground to the top of the cab with 215 cm (SRI 1025) rear tires

D | OVERALL WIDTH

2,550 mm, base tractor width, total width depends on tires and tread setting







7R SERIES

MODEL	7R 250	7R 270	7R 290	7R 310	7R 330	7R 350
Rated engine HP (ECE-R120) "Power on the hood"	250	270	290	310	330	350
Max. engine HP without IPM (ECE-R120) "Power in the field"	275	297	319	341	363	385
Max. engine HP with IPM (ECE-R120) "Power in transport & PTO"	290	305	332	352	373	388
Engine	6.81PSS	6.81PSS	9.01PVS	9.01PVS	9.01PVS	9.01PVS

A JOY TO DRIVE

7R TRACTORS

The 7R is designed to excel on the road – delivering the productivity your business needs and the superior comfort every driver appreciates.



ActiveCommand Steering is an electronic steering system, that uses a gyroscope to sense any tractor yaw and automatically compensates drift to keep you perfectly on track. Especially at higher speeds and on uneven roads this adds to your steering authority and comfort.

Our new ActiveCommand Steering 2 (ACS $^{\mathbb{M}}$ 2) system has been further improved for transport applications. You can now adopt it in the CommandCenter $^{\mathbb{M}}$ display to perfectly match your personal preferences:

- Variable Ratio Steering can now be turned on/off. "On": less steering wheel
 movement is required at low speeds, while at high speeds little movements won't
 take you off-track. "Off": you keep a fixed steering ratio as known from our proven
 hydraulic power steering.
- Steering Sensitivity can be adjusted to low/medium/high. This impacts the amount
 of steering wheel movement required to first react and to actually turn the wheels
 to a certain degree.
- Steering Resistance can be tuned individually. This influences the steering wheel torque required to move the steering wheel.

Meanwhile, we didn't touch the popular tunings for the field: the comfortable, agile steering enables quick and convenient headland steering maneuvers with an automatic reduction to 3.1 lock-to-lock steering wheel turns at in-field speeds.







CAB SUSPENSION - A MORE RELAXED DAY

The optional cab suspension allows the operator to increase productivity and decrease the effects of fatigue. Regardless of the application, the cab suspension system by John Deere cushions the operator in a variety of applications.

The new 7R boasts an 18 t maximum permissible weight when ordered with front brakes and any 40 km/h transmission option.



Triple-Link Suspension Plus – be one with the road. The fully integrated, self-levelling front suspension systems gives you that extra feel of safety when you run on curvy roads at top speed. The new ActiveCommand Steering system further improves the roadability of the new 7R. But you'll feel the difference in the field as well, with consistent ground contact and maximum traction always guaranteed.

- 1 | Suspension cylinder
- 2 | TLS[™] Dampening Valve with suspension accumulators
- 3 | Tie Rod
- 4 | Differential housing

LESS LOSSES – HIGHER PULLING POWER

DRIVETRAIN EFFICIENCY

How much power does a tractor actually deliver? Engine specifications in marketing materials can be deceiving. What matters is the power that is transmitted to the ground – accounting for the natural losses along the whole drivetrain. Our transmissions have extremely low power losses. The e23™ transmission is purely mechanically driven and different to others also the stepless AutoPowr™ transmission excels with a very high share of mechanical drive.

Built for efficiency: The cooling package does not compromise on cooling surface and provides highrate, unrestricted airflow.





Maintaining the outstanding 95%* overall tractor efficiency benchmark of the previous 7R Series was a priority for the design of the new 7R.

RATED POWER

- + 10% JD POWER BULGE
- COOLING & AUXILIARY
 LOSSES
- TRANSMISSION & AXLE LOSSES
- = REAL DRAWBAR
 PULLING POWER

95%*



POWER ON HOOD:

350 hp (257 kW)*

POWER IN FIELD: 385 hp (283 kW)*

POWER IN TRANSPORT & PTO:

388 hp (285 kW)*



BUILT FOR AGRICULTURE

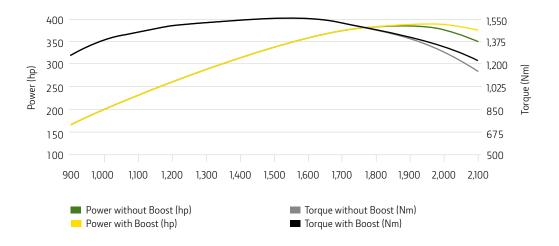
ENGINE

We build and tune our engines for optimal performance in the most demanding agricultural applications. It's what our engines stand for, and it's what John Deere is known for.

Our power decal on the hood merely shows the rated engine power. However, unlike many others, in the field, our engines deliver a torque rise of up to 40% and an outstanding power bulge of around 10%. This "max. power" is always available under all conditions. Plus, if extra loads occur suddenly and the engine rpm drops a little, the torque continues to increase and you stay within the constant power range. This makes for the tremendous pulling power John Deere engines stand for.

On the road or in PTO applications, the engine's Intelligent Power Management can yet again unleash an extra boost of up to 30 hp.

THE 7R 350: PURE PULLING POWER



FULLY MECHANIC – FULLY EFFICIENT

e23™ TRANSMISSION

We offer you the flexibility to choose the right transmission to fit your needs. Our fully mechanical e23™ transmission is engineered to deliver maximum efficiency and robustness for real arable farming and some demanding transport applications.



Efficiency Manager™ allows you to pre-set the ground speed and then sets the engine rpm to the optimum for saving fuel by automatically shifting up and throttling back.

LEADING TECHNOLOGY

 $e23^{\text{\tiny M}}$ combines the benefits of a mechanical transmission with the ease of use of stepless transmissions.



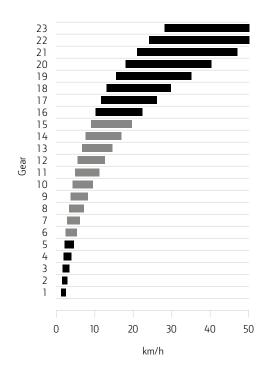


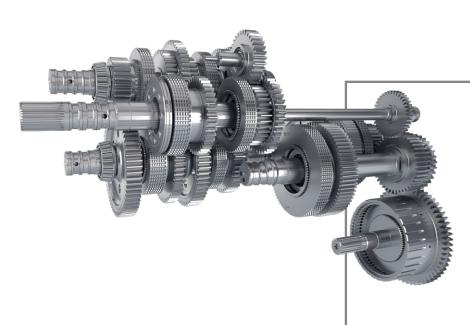
REDUCE RPM (ECO SPEED)

In custom mode, ECO allows two minimum engine speeds to be set. Operators can turn ECO on or off with the ECO button on the hand throttle or in the transmission settings page of the CommandCenter $^{\mathbb{M}}$.



Top field performance – Ten gears in the main working range from 5-16 km/h provide the ideal gear for the most demanding pulling applications.





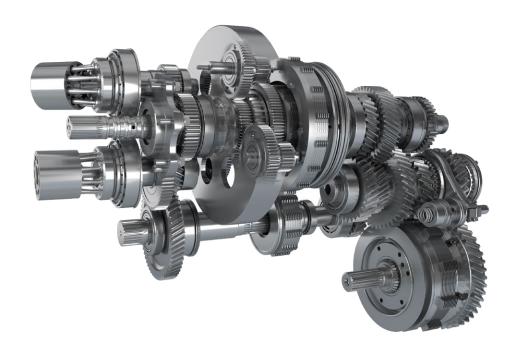
10 powershiftable gears in the 5-16 km/h range for maximum in-field pulling power at the right rpm. Top speed is reached at 1,520 rpm (40 km/h) or 1,800 rpm (50 km/h) for optimal fuel savings.

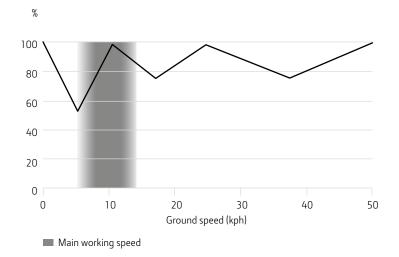
THE POWER OF INFINITE

AUTOPOWR™ TRANSMISSION

AutoPowr[™] lets you accelerate smoothly from start-up to maximum speed with a single lever and absolutely no clutching.







OUTSTANDING EFFICIENCY

Designed and built by us exclusively, our threerange AutoPowr™ transmission ensures 55%-100% mechanical power flow for ultimate tractor efficiency and maximum power to the ground. Less hydraulic power transfer of course also means lower oil cooling requirements – a further efficiency boost.

ECO SPEED

Achieve low transport application costs with top speeds of 40 km/h at 1,290 rpm and 50 km/h at 1,620 rpm.

CHOICE OF CONTROL

The choice is yours – classic AutoPowr™ control lever or state-of-the-art CommandPRO™ joystick.



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

THE ERGONOMIC DRIVER INTERFACE

COMMANDPRO™

Mastering the power of the 7R Series tractors is simple with the new CommandPRO™ joystick and its 11 reconfigurable buttons. It's the ultimate driver interface for making every work day more comfortable and productive.

IN FULL CONTROL

- Set top and zero speeds with one simple push or pull
- Creeping control from 0 to 5 km/h
- Simultaneously active pedal and joystick driving
- ActiveZero function keeps the output speed 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 as well as configuration settings for the eletronic Joystick and CommandPRO™. Instantly access the individual settings for implements or operators and be productive from the moment you take the wheel.



EASY ACCESS

CAB

So much space, so little noise, such luxury. Pure passion for detail. Welcome to the new 7R cab. What a way to start your workday.

OVERVIEW:

- 25% wider steps with 2 width settings
- low door handle
- bigger door opening angle
- improved mirror position
- coming home & service light







RELAXING AMBIENCE

Now even quieter, thanks to a relocated air conditioning system, laminated glass, and a carpet floor mat.



CAB SIZE

Your health and well-being are critical productivity factors. When the space around you feels restricted, so do you. And that's not when your best work happens. That's why we made the cab even bigger and added an extra 5 cm of headroom.





FOOT RESTS

Premium comfort means premium features. Rest and relax your feet and legs on the foot rests located to the left and right of the steering column and on the right side of the cab. Combined with our luxurious seat features, these are the thoughtful details that make long days shorter.



HIGH-VOLUME FRIDGE

The newly designed large capacity 111 refrigerator gives you ample storage for even the longest of days. Since the inlay is removable, it's easy to clean and stock ahead of time, when you're planning your workday.

BENCHMARK

VISIBILITY

The lean steering column, narrow hood and large glass areas provide you a view to the outside which is benchmark in this segment.

And if you operate at night, our newly designed LED light package provides 60% more lumen output to its predecessor and delivers an illumination area coverage which is second to none. We've integrated these lights all around the cab roof for true 360° daylight-quality, high-contrast lighting that can be individually controlled in the CommandCenter.



The new LED lights provide true 360° illumination in spectacular daylight-quality.





VISIBILITY PACKAGES

	SELECT	PREMIUM	ULTIMATE
Lighting	18x Halogen	2x Halogen + 16x LED	2x Halogen + 20x LED + 8x LED Convenience Lights
Mirrors	Electrical	Electric, heated	Electric, heated, telescoping
Sunshades	Front	Front/RH side/rear	Front/RH side/rear
Wipers	Front/rear	Front/RH side/rear	Front/RH side/rear
Camera	Camera ready	Camera ready	Rear integrated camera

- 1 | Convenience lights
- 2 | Integrated rear camera
- 3 | Narrow hood design
- 4| Excellent all-around visibility





1 | CONVENIENCE LIGHTS

Activated from a switch at the cab entry steps, the new convenience lights illuminate the immediate surroundings of the tractor to make sure you can perform tasks like refuelling or changing implements easily and safely during night-time.



2 | INTEGRATED REAR CAMERA

The integrated rear camera provides a safe and convenient view to the rear of the tractor. That makes it easy to couple implements and adds safety.



3 | 65° TOTAL SEAT SWIVEL

Forget that uncomfortable body twist. See more, in greater comfort when you rotate the seat by up to 40 degrees for a perfect view of your implements. You'll definitely feel the difference after a day of work. We've also increased the swivel to the left to 25° to make cab access as easy as possible as well as the view to the left when e.g. driving next to a forage harvester.

LUXURIOUS

RIDE COMFORT

Enjoy less back muscle stress and better posture with easier breathing from a super comfortable seat that feels amazing and keeps you relaxed and alert all day long.



Select and Premium Edition cabs come with durable fabric-covered seats.





PERFORATED LEATHER SEAT

Our all new seat comes with a wealth of features. Electrical controls, pneumatic lumbar adjustments, seat heating and... are just the start. A number of new luxury features that are first in the industry make it absolutly unique.

MASSAGE FUNCTION

Yes, this is the first ever tractor driver's seat with built-in massage elements. Loosen up, relax and recover during long work hours to end your workday refreshed.

SEAT VENTILATION

You don't want to spend that hot day sweating; you want to stay sharp and productive. Our newly designed seat ventilation will keep you comfortable no matter what.

SIDE BOLSTERS

The side bolsters can be inflated to provide perfect stability in side-to-side motion.

THIGH EXTENDER

Taller drivers with longer legs can attain a comfortable and restful seating position.



EXCELLENT

INFOTAINMENT

The 6.5" state-of-the-art digital touchscreen radio works with Apple CarPlay and gives you a multitude of entertainment options.





Apple CarPlay is a smarter, safer way to use your iPhone when driving. Leverage Siri voice control or use the integrated tractor controls to do what you want. You can get directions, make calls, send and receive messages, and listen to music, all in a way that allows you to stay focused on the road and in the field.

CONCERT HALL LIKE SOUND QUALITY

Get ready for your jaw to drop. The 7R now has a brand new audio system with 6 speakers, plus a powerful subwoofer designed by high-end audio specialists.



Your music comes alive with rich detail, vibrant energy and a punchy bass that might just make your cab your favourite place to listen to music. As for the practical side of things, you get all the bells and whistels you expect, including a touch screen and DAB+.

COMFORT & CONVENIENCE PACKAGES

	SELECT	PREMIUM	ULTIMATE
Seat	Cloth, mechanical controls, mechanical lumbar 8°LH/40°RH swivel	Cloth, electronic controls, pneumatic lumbar 25°LH/40°RH swivel	Perforated leather, electronic controls, pneumatic lumbar 25°LH/40°RH swivel, heated/ventilated, 2-zone massage, inflatable side and extendable seat cushion
Infotainment	AM/FM/WX, AUX & BT inputs, 4 speakers	6.5" touchscreen radio, DAB+, XM ready, 6 speakers plus subwoofer	6.5" touchscreen radio, DAB+, XM ready, 6 speakers plus subwoofer
Business band ready	•	-	•
4 USB & 12 V	•	•	•
Dual tilt column	•	•	•
Foot rests	-	•	•
Refrigerator	-	•	•
RH accessory rail, 220 V outlet	-	•	•
Carpet floor mat	-	-	•
Leather wrapped steering wheel	-	-	

Legend: ■ base; – excluded

INTUITIVE CONTROL

COMMANDARM™

The 7R Series makes sophisticated agricultural technology easy to operate. Everything is within easy reach and the touchscreen CommandCenter™ with shortcuts and context-sensitive help makes navigation as easy as it gets.

4200 DISPLAY

With a 21.3 cm (8.4") touchscreen and one video input, our standard display is already one of the most advanced in the industry. Upgradable to the Gen4 Premium activation, it comes with full AEF ISOBUS certification, remote display access and wireless data transfer connectivity to the John Deere Operations Center™.

4600 DISPLAY

The optional 4600 CommandCenter™ features a 26.4 cm (10.4") touchscreen, four video inputs, the option to connect to the Extended Monitor and the possibility to upgrade to the Gen4 Automation Activation to enable the full range of advanced precision agriculture applications.

SETTINGS MANAGER

Reducing the set up time for all your different applications, the Settings Manager allows you to save all your machine settings, for example: engine, SCVs and rear hitch as well as configuration settings for CommandPRO $^{\rm m}$ and the electronic joystick.



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. For example, you can view vehicle control functions on your primary display and Precision Ag applications on the Extended Monitor.



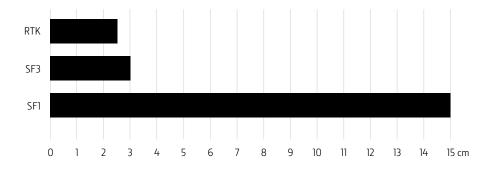
UNBEATEN INTELLIGENCE

STARFIRE™ RECEIVER OPTIONS

The choice is yours. Our new StarFire™ 6000 Integrated Receiver builds up full signal accuracy quicker than ever, comes factory calibrated and is equipped with theft-prevention features. If you're looking for portability between machines, the universal StarFire™ 6000 receiver gives you that option. Whichever you choose, you'll be working with a leading precision farming solution.

STARFIRE™ 6000 RECEIVER SIGNAL OPTIONS

A compelling new level of accuracy, signal stability and repeatability



- RTK: +/-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.
- SF3: +/-3 cm pass-to-pass accuracy and 9-month in-season-repeatability.
- SF1: +/-15 cm pass-to-pass accuracy, free of charge.



AutoTrac™ is now available for speeds down to 200 m/h and delivers twice the accuracy for highspeed applications up to 16 km/h.

BOOST YOUR PRODUCTIVITY

COMMANDCENTER™ AUTOTRAC™

YOUR BENEFIT

- Less operator stress
- Fewer passes with reduced overlaps and gaps
- Up to 8%* input cost reduction
- Up to 14%** productivity increase
- Precision work in low visibility conditions

PRECISION FROM THE START

AutoTrac™ boosts your productivity while reducing input cost on fuel, fertilizer and chemicals and adding enormous comfort. Even in challenging conditions such as low visibility (e.g. at night, dust, fog) or rolling terrain, your field is always being worked with flawless accuracy to ensure ideal crop spacing. Once you have experienced the benefits of AutoTrac™, you will never want to go back!

With us, documentation capabilities come standard with every $4200\ \text{and}\ 4600$ CommandCenter™. Including wireless data transfer (DataSync) with a close to real time connection (every 30s) to your office and mobile devices.

A HEAD START INTO THE FIELD

AUTOTRAC™ ONLINE

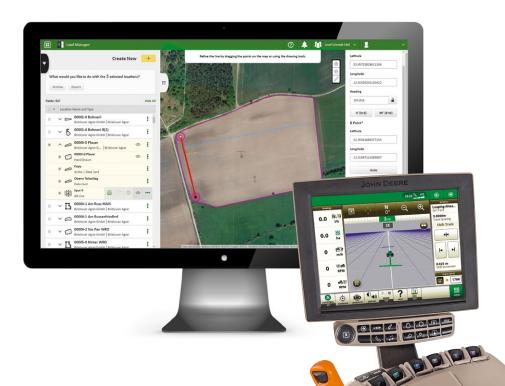
We're not just giving you a guidance system. You get a full offboard solution on top and for free. It gets your operators into the right fields, enables them to start work in the field quicker, ensures consistent data (e.g. boundaries & guidance lines) across displays in a fully automated fashion, while your data is backed up at all times.

New field boundaries can be easily imported from a subsidy application portal or farm management software via shapefile. You can also draw them online or modify any existing boundaries, which is a great help for first time field localisation, especially if you contract or use seasonal employees.

You can wirelessly send all data to the machines you select at the push of a button – eliminating time-consuming and error-prone manual set-up on multiple displays in the field. When you approach a new field, the related client, farm and field data will automatically be detected. Upon confirmation, the boundaries are loaded, and the preferred guidance line can be chosen from a pre-populated list.

YOUR BENEFIT

- Quick and easy in-field display set-up
- Automated, reliable and errorfree documentation
- Automated data back-up



FREE JDLINK™ CONNECT SUBSCRIPTION

Wireless data transfer is the easiest way to have accurate and actual data updated between machine and office simultaniously.



Control up to 255 individual sections – boost your resource efficiency with Section Control.

THE PRECISION FARMING ADVANTAGE

COMMANDCENTER™ PREMIUM

The CommandCenter™ Premium Activation is your ticket to the benefits of site-specific farming, camera based guidance (AutoTrac™ Vision) and In-Field Data Sharing.

SECTION CONTROL

Upgrade to Section Control (TC-SC) to minimise skips and overlaps automatically on the go. Controlling up to 255 individual sections saves you significant money on fertilizer, chemicals and seed.

IN FIELD DATA SHARING

In-field data sharing lets you see coverage and as-applied maps for machines working in the same field at the same time. It's how you can make sure that you get complete field coverage with multiple machines even in low light and/or dusty conditions, while you reduce overapplication, obtain more accurate documentation data and lower input costs. They say that information is power – we know it is certainly profitable.

ISOBUS DOCUMENTATION

ISOBUS Documentation (TC-GEO) functionality can be added free of charge to the Premium Activation. It allows you to also route date to other FMIS systems.

MANAGE YOUR FIELDS THE SMART WAY

The John Deere Operations Center™ puts your farm in your pocket: Easy-to-understand, integrated tools support your agronomic decision making and help you get maximum yield and consistent quality from your soil at significantly reduced input costs. Plan your crop rotation and tasks for the upcoming season with a structured overview that will make it effortless to create display set-up files and work orders. As the individual task are being completed, your documentation data is automatically uploaded from your in-cab display to your personal MyJohnDeere.com account. From there all operational details are easily visualised on a nicely structured timeline — anytime, anywhere, from any internet-capable device, allowing you to view your mapping or compare different map layers like yield, dry matter, crop constituents, and application rates.

This is how you turn valuable agronomic insights into smart decisions and more easily define corrective actions. Other integrated tools enable you to easily turn this data into site-specific variable rate prescriptions and allow you to collaborate with agronomic advisors by granting them field-specific access rights. Finally, documenting your work for clients becomes a breeze with easily created, printed and shared reports.

YOUR BENEFIT

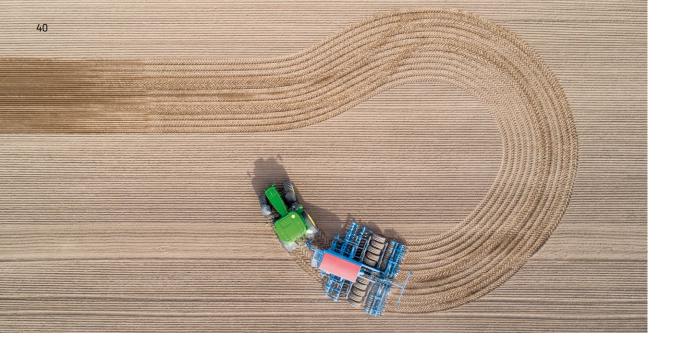
- All info in one centralised location, nicely structured and easily accessible
- Gain insights for smart, fact-based decisions
- Leverage numerous additional agronomic tools for further data processing and analysis
- Automated data transfer between machine and office in near real-time





MYOPERATIONS™ APP

All the insight you need for fact-based decision making – anytime, anywhere.



ALMOST AUTONOMOUS

COMMANDCENTER™ AUTOMATION

On top of all the Premium Activation features, you also reap the benefits of AutoTrac™ Turn Automation, AutoTrac™ Implement Guidance Passive and Machine Sync.

AUTOTRAC™ TURN AUTOMATION

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

AUTOTRAC™ IMPLEMENT GUIDANCE - PASSIVE

AutoTrac™ Implement Guidance – Passive solves a problem the single AutoTrac™ solution cannot: In uneven terrain and on slopes, the weight of your pull-type implement will cause it to drift. The results are quality-reducing gaps and overlaps. With a second receiver on the implement, regardless of the terrain, you can now achieve highest precision standards in all your seeding, planting and tillage operations.

MACHINE SYNC

Machine Sync enables the GPS-based synchronisation of speed and steering between a combine and tractor with grain cart or trailer during unloading in the field – think even trailer filling without losses and reduced vehicle collision risk. In addition, it provides important logistics information such as grain fill tank level and combine position to allow operators to make informed decisions about the most direct route to the next destination.

PRECISION AG PACKAGES

	PREMIUM	ULTIMATE
4600 CommandCenter™	•	-
4600 CommandCenter™ & Extended Monitor	-	
Gen4 Premium Activation	-	-
Gen4 Automation Activation	-	•
Tractor Implement Automation	•	
JDLink™	•	

Legend: ■ base; – excluded



ENDLESS POWER

HYDRAULICS AND PTO

The hydraulics in the 7R series tractors give you more power than you'll need, the versatility you require and the accuracy you've always desired.

The CommandCenter™ gives you precise control over individual SCV flow rates and time detent. You can also control the hitch and SCV from the rear fender.







SELECTIVE CONTROL VALVES

Up to six selective control valves at the rear, up to two at the front, and power all the way up to a benchmark 223 l/min drive even the largest implements at fuel saving reduced rpm (227 l/min at 1,500 rpm). Take-out capacity is 65 l as standard and 85 l with the optional auxiliary tank.

With PTO options like the 540E/1,000/1,000E, 7R Series tractors provide the versatility and flexibility needed to satisfy all implement demands at this power level. For increased versatility, a 1,000-rpm front PTO option is available from the factory for 7R Tractors equipped with the John Deere front hitch.

LIFT IT ALL

HITCH OPTIONS

No matter what or how much – 7R family tractors have a wide range of hitch and drawbar options available to combine their incredible pulling power with versatility across a wide variety of applications.



Optionally available, the iTEC $^{\infty}$ compatible front hitch has a constant lift capacity of 3,500 kg at the hooks.



EFFORTLESS THREE POINT HITCH CONTROL

Hitch controls are located in the CommandCenter™: electronic sensors relay information to the control module for fast and accurate corrections. Controls can also be accessed on the rear fender.



REAR HITCH OPTIONS

7R Series tractors offer a variety of rear hitch options to complement application needs with 7,850 kg of constant lift capacity.

Seamlessly integrated into the tractor design, the right-hand steps are now included in base configuration.



AUTOMATIC WAGON HITCH

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



BALL-TYPE HITCH

In low position, these hitches provide optimum traction and driving dynamics for tractor/ trailer combinations.
The 80 mm ball hitch allows vertical loads of up to 4,000 kg.



FORCED STEERING SYSTEM

For even more versatility, our hitches can be equipped with a forced steering system to operate large trailers with steering axles.

PITON-FIX HITCHES

Sturdy and height-adjustable: for trailer operation and many other implement applications. Available for 390 mm inner rail width.



Strong Drawbar – the new Category 4 drawbar guarantees a maximum durability when handling the most demanding implements in any field application.



THE ART OF TRACTION

BALLASTING

With the ever-increasing costs of fuel, correct weight distribution and flexible ballasting play a more important role in driving productivity and performance. John Deere 7R Series tractors offer several options to provide the optimum balance.



ADD HEAVY BALLAST - WITH A LIGHT TOUCH

The new EZ Ballast exclusively enables optimal ballasting of the 7R – especially beneficial to farmers and contractors who frequently need to switch between field and road applications. You can add or remove the 1,7 t weight in seconds, at the touch of a button without needing to step down from the cab.



Drive over the weight – There's no need to step down from the cab.



Pick up the weight – Simply operate the mounting system via the dedicated control panel and the ballast is raised to the undercarriage (connected to existing Power Beyond system) – and safely locked in place.



Drive off – Releasing the ballast is just as simple and will save transport fuel costs.





Rear wheel weights enable correct ballasting of the rear axle for improved traction. Available with 70 kg, 205 kg, 625 kg (inner only) and 900 kg outer wheel weights.



PICK-UP WEIGHTS

Pick-up weights help you get the perfect balance and improve the tractive performance of your 7R. The John Deere designed weights guarantee the most compact form to minimize overall vehicle length or help to connect via the self-centering capability of the two largest versions. Available in 900 kg, 1,150 kg, 1,500 kg and 1,800 kg versions, they can be mounted to the front hitch and the front weight support (900 & 1,150 kg only).

FRONT SUITCASE WEIGHTS (50 KG)

Up to 22 suitcase weights of 50 kg each can easily be mounted/ dismounted to the front weight support. They facilitate optimised weight distribution between the rear and front axles, as the amount of weights being used can be quickly adapted to application requirements.



70 kg Starter Weight + 1x/2x 205 kg flexible ballasting fits all tire sizes.



70 kg Starter Weight + 900 kg Heavy ballast for heavy pull with 42" or bigger rims.



625 kg Inner weight, also possible with trailer brakes and additional oil out-take reservoir.

SERVICES THAT BENEFIT YOU

FARMSIGHT™ SERVICES



EXPERT ALERTS

Expert Alerts, our newest remote diagnostics advancement, is based on smart software algorithms that can predict many potential technical issues before they have a negative impact or cause damage. Repairs become plannable while downtime and costs can be reduced significantly.

JOHN DEERE CONNECTED SUPPORT™

John Deere dealers have access to several cutting-edge John Deere Connected Support™ tools that allow them to provide you with a suite of proactive services tailored to your needs. 7R Series tractors come with a JDLink™ telematics module as standard, including a free 2-year JDLink™ Connect wireless data transfer subscription. To start benefiting from that, you simply need to provide your consent and agree with your John Deere dealer on the scope of your FarmSight™ Services package.

Using the FarmSight™ Services of the IN BASE package, dealer specialists can monitor the condition of your machine with Connected Support tools like Expert Alerts and Machine Dashboard. If the tools detect an anomaly, you'll be contacted immediately to receive the proactive support you need to minimize downtime risk and continue to focus on your work in the field.

REMOTE MACHINE MONITORING

It's yet another service that sets John Deere apart. Upon your consent, our Machine Dashboard displays the operating condition data and error codes to your dealer in real time. He can remotely connect to the machine, run further diagnostics and perform remote software updates to help you faster than ever before. Plus, our new Expert Alerts are included as well.

AUTOMATIC MAINTENANCE PLANNING

You'll always be perfectly on track with your maintenance. Automated notifications can be based on actual machine hours or calendar dates and alert you to maintenance tasks which need to be performed.

MYJOHNDEERE™ ACCOUNT SETUP

This service includes the basic set-up of a MyJohnDeere™ account and Operations Center organization to connect your machine.

REMOTE MACHINE SETUP SUPPORT

You need instant advice and can't wait for someone to come to the field? Remote Display Access allows your dealer expert to remotely assist you and your operators with machine/implement setup and more — like being virtually in the cab.

EXPERT CHECK

Using a special John Deere inspection checklist, your dealer expert performs a thorough technical examination of your machine. He will advise you on what measures to take and take care of all relevant software updates to ensure maximum uptime in the next season.

OPERATIONS CENTER INTRODUCTION

You want to properly store and manage field boundaries, guidance lines, documentation data and have access to a full suite of farm management tools? Then this is the right package element for you.

OPTIMIZATION VISIT

Benefit from dealer product specialist experience to fully exploit your machine's capabilities. Thanks to their detailed product knowledge, dealer product specialists can help you by reviewing your current machine settings and providing improvement recommendations.

FARMSIGHT™ SERVICES PACKAGES

VAI	_UE	FARMSIGHT™ SERVICES	IN BASE	SELECT	PREMIUM	ULTIMATE
<u></u>	Uptime	1 Pre-Delivery Inspection	-		-	•
	Training	2 MyJohnDeere™ Account Setup	-		-	
	Training	3 Machine Handover Training	-		-	
<u></u>	Uptime	4 Remote Machine Monitoring	•	•	-	
<u></u>	Uptime	5 Automatic Maintenance Planning and Notification	•		-	•
	Training	6 John Deere Operations Center™ Introduction	-		-	
<u></u>	Uptime	7 Seasonal Phone Support	-		-	
<u></u>	Uptime	8 Expert Check and Software Update	-	•	-	
M	Performance	9 Setup Support / Optimisation Visit	1st year only	-	-	
~	Performance	10 Remote Machine Setup Support	-	-	-	
~	Performance	11 Remote Performance Check	-	-	-	
<u></u>	Uptime	12 Back-up machine	-	-	-	

^{*}The FarmSight™ Services packages content & prices are defined by your local John Deere dealer and can deviate in scope and composition.





PowerGard™ agreements protect your investment against unexpected repair costs and keep your maintenance on track with genuine parts. Three fixed rate packages provide increasingly comprehensive levels of coverage to keep your machine running at peak performance and give you peace of mind from the start.

UP TO 8 YEARS / 8,000 HOURS*

POWERGARD™ MAINTENANCE

Preventive maintenance work that's essential for keeping equipment in good working order – using only original John Deere parts and based on factory recommended intervals. It's also a prerequisite for a PowerGard™ Protection or Protection Plus agreement.**

POWERGARD™ PROTECTION

Get this must-have protection to cover the components that put power to the ground.

POWERGARD™ PROTECTION PLUS

Next-level protection with comprehensive coverage of almost all tractor components.

FINANCING

Add your PowerGard™ Protection agreements to your financing package and benefit from competitive rates with flexible payments.**

	HOUR	S PER YEAR						
		500	750	1,000	1,250	1,500	1,750	2,000
ш]+]	✓	✓	1	✓	✓	✓	1
SA G	1+2	✓	✓	1	✓	✓	✓	✓
COVERAGE	1+3	✓	✓	1	1	✓		
5	1+4	✓	✓	1	1	✓		
SOF	1+5	✓	✓	1	✓			
YEARS	1+6	✓	✓	✓				
>	1+7	✓	1	1				

^{*}At participating dealers only. Requires a maintenance plan.
PowerGard agreements and Financing for PowerGard** Maintenance is currently only available with participating dealers. Country regulations apply.

YOUR WORKPLACE, YOUR CHOICE

It's where you work, so make it yours by choosing our Select, Premium, Ultimate or "John Deere" Signature editions.

EDITIONS

PECCEIPTION	CELECT	DDEA.		"IOUN BEERE"
DESCRIPTION	SELECT (0584)	PREMIUM (0585)	ULTIMATE (0586)	"JOHN DEERE" SIGNATURE (055B)
TRANSMISSION				
e23™			-	-
AutoPowr™	-			
FRONT AXLE				
TLS™				
HYDRAULICS				
Hydraulic Pump 162 I/min			-	-
Hydraulic Pump 223 l/min			-	
4-eSCVs Premium	•		-	-
5-eSCVs Premium				
6-eSCVs Premium	-		-	-
Electrical Joystick	-		-	
Rear Hitch with Sway Blocks	•		-	-
Rear Hitch with Deluxe Stabilizers				
CAB				
CommandCenter™ 4200			-	-
CommandCenter™ 4600	-			
CommandPRO™	-			
Cab Suspension	-			
ActiveSeat™ II	-			
RECEIVER				
StarFire™ 6000 (integrated) – SF1				-
StarFire™ 6000 (integrated) – SF3				-
StarFire™ 6000 (integrated) – RTK				
COMFORT & CONVENIENCE PACKAGES				
Select		-	-	-
Premium			-	-
Ultimate	-			
VISIBILITY PACKAGES				
Select		-	-	-
Premium		-	-	-
Ultimate	-			
PRECISION AG PACKAGES				
Premium	-			-
Ultimate	-			

Legend: ■ base; □ optional; – excluded



SPECIFICATION 7R SERIES TRACTORS

	7R 250	7R 270	7R 290	7R 310	7R 330	7R 350		
ENGINE PERFORMANCE	ANT-210	7K2/U	/NZ25U	/K-SIU	ANDEU	///->50		
Rated Engine Power (ECE-R120), hp (kW)	250 (184)	270 (199)	290 (213)	310 (228)	330 (243)	350 (257)		
Max Engine Power at 1,900 rpm (ECE-R120), hp (kW)	275 (202)	297 (218)	319 (235)	341 (251)	363 (267)	385 (283)		
Max Engine Power with IPM at 1,900 rpm (ECE-R120),	273 (202)	237 (210)	ادرح) داد	341 (231)	303 (207)	303 (203)		
hp (kW)	290 (213)	305 (224)	332 (244)	352 (259)	373 (274)	388 (285)		
ntelligent Power Management, hp	30	30	30	30	30	25		
Constant Power Range, rpm	1,500-2,100	1,550-2,100	1,500-2,100	1,500-2,100	1,500-2,100	1,600-2,100		
PTO Torque Rise, %	40	38	40	40	40	40		
PTO Power Bulge, %	10	10	10	10	10	10		
Engine Peak Torque @ 1,600 rpm, Nm	1,171	1,245	1,358	1,452	1,545	1,580		
ENGINE								
Manufacturer		erTech™ PSS 6.8 L Compatible)	John Dee	re PowerTech™ PVS	9.0 L (B8 Diesel Co	ompatible)		
Туре			vlinder, wet-sleeve	cylinder liners with	4 valves-in-head			
Rated Engine Speed, rpm			•	00				
Aftertreatment	Lo	nglife & maintenanc Sele		lefilter (DPF), Diese duction (SCR) with [OC),		
Engine Air Filter		Seit		stage				
Aspiration	Dual Series Turbo	charger with fixed	Dadi	9-				
A-pillation	geometry first : geometry second aftercooling and c	stage & variable stage – air-to-air cooled exhaust gas ulation	Single turbocharger, variable geometry turbo					
Cylinder / displacement, l	6/	6.8	6/9.0					
Bore and stroke, mm	106	x 127	118.4 x 136					
- uel Injection	Electronica	ally controlled, high-	pressure common	rail with electric fu	el transfer pump (s	elf priming)		
Fuel filter System			•	tor and service indi		, ,,		
TRANSMISSION OPTIONS					5 .			
e23™ Transmission with Efficiency Manager™								
23 Forward- / 11 Reverse Gears, 40 km/h, left & right hand reverser	Standard – 40 km/h @ 1,600 rpm with 205 cm tyres, Option – 40 km/h @ 1,520 rpm with 215 cm tyres Not availa							
23 Forward- / 11 Reverse Gears, 50 km/h, left & right hand reverser		Option $-50 \text{km/h} @ 1,900 \text{rpm}$ with 205 cm tyres, Option $-50 \text{km/h} @ 1,800 \text{rpm}$ with 215 cm tyres						
AutoPowr™								
Variable, 0.05 – 40 km/h, left & right hand reverser or CommandPRO™		Option – 40 km/h @ 1,360 rpm with 205 cm tyres, Option – 40 km/h @ 1,290 rpm with 215 cm tyres						
Variable, 0.05 – 50 km/h, left & right hand reverser or CommandPRO™		Option	n – 50 km/h @ 1,70	0 rpm with 205 cm 20 rpm with 215 cm	tyres,			
AXLES		2,500			,			
Rear Axles								
110 x 2,550 mm (4.33 x 100.4 in.), variable range			Standard			Not availabl		
120 x 2,550 mm (4.72 x 100.4 in.), variable range			Option			Standard		
Flange Axle, 335 mm bolt circle				tion		Standard		
Front Axles			Ор	LIOII				
			Ctondord			Not availabl		
1300 Series MFWD with Triple Link Suspension	0	ption for 40 km/h, ľ	Standard	m/h or for 10 000 1	/a	Not availabl		
l300 Series MFWD with Triple Link Suspension and with Wet Disk Front Brakes	U		num Permissable W		kg	Standard		
Differential Lock								
Differential Lock – Front and Rear Axle	F	ull-locking electroh	ydraulic – On/Off	Auto Mode dependi	ng on Steering Ang	le		
ELECTRICAL SYSTEM								
Alternator/Battery				amps / 12 Volt				
Total cold cranking amps		1.850 (2 ha		- 925 CCA, group 31	batteries)			
STEERING		.,050 12 00	, , , , , , , , , , , , , , , , , , ,	, g. oap 31				
Steering column type		T;I+ 9	telescope steerin	g with memory fund	tion			
, , , , , , , , , , , , , , , , , , ,	Tilt & telescope steering with memory function Standard: Load sensing hydraulic w/ flow metering with electric back-up pump							
Hydraulic power steering			• •					
ActiveCommand Steering 2 (ACS™ 2)	Optional – Steering system with ability to select variable or fixed ratio steering mode, adjustable steering whe resistance and adjustable steering sensitivity System includes Dynamic Road Wheel Offset Control, full electronic steering control, passive tactile feedback and electric back-up pump							

SPECIFICATION 7R SERIES TRACTORS

	7R 250	7R 270	7R 290	7R 310	7R 330	7R 350	
HYDRAULIC SYSTEM							
Туре	Closed-center, pressure & flow compensated system (PFC) with load sensing						
Main pump, axial piston (displacement)	Standard: 63 cm³ – Optional: 85 cm³						
Maximum pressure, bar	204						
Rear Selective control valves with 1/2 inch ISO couplers	4/5/6 – Premium couplers with high pressure relief levers						
Rated flow, 63 cm³ pump, l/min	162						
Rated flow, 85 cm³ pump, l/min			22	23			
Maximum flow at a single Rear SCV, I/min			13	2			
Front SCV's		1 SCV in base with Front Hitch, 2 SCV's optional with Front Hitch					
Available flow at Front SCV's, I/min			12	6			
Oil Take out capacity , l		Stand	lard: 65 / optiona	with auxiliary tar	k: 85		
Power beyond couplers		0	ptional (1/2 inch o	r 3/4 inch coupler	s)		
Mid mount electrohydraulic valve stack	Optional, w	ith 3 independend f	functions for an ir or fron		on of mid-mounted	implement	
REAR HITCH							
Туре	El	ectrohydraulic Low	ver Link Sensing; I	oad & depth contr	ol, infinite mix, floa	it	
Coupler System			Walterscheid H	ook Style Ends			
Lower Link Stabilization		Sv	vay Blocks or Delu	ixe Sway Stabilize	rs		
Category			3/.	BN			
Lift capacity through full lift range, (610 mm behind the coupler, OECD), kg		Option	Standard 7,850 kg (requir	– 6,900 es Flange or 120 m	ım axle)		
Maximum Lift capacity, measured with optional hitch (at hook ends, OECD), kg			13,0	010			
Center Link		Option	n – Hydraulic Cent	er Link – Cat. 3 (9	0 mm)		
DRAWBAR & TRAILER HITCH							
Drawbar	Cat. 3 with 38 r	t. 3 with 38 mm pin nm pin with heavy o mm pin with heavy	duty support /	Cat. 4 with 50	mm pin with heavy	duty suppor	
Maximum Vertical Load (Please check country specific limitations)	2,766 kg with	Cat. 3; 3,000 kg w and Cat. 4 HD	ith Cat. 3 HD	3,0	000 kg with Cat. 4 H	HD	
3-in-1-hitch, with Cat. 3 drawbar		Optional			N/A		
3-in-1-hitch, with Cat. 4 drawbar			Opti	onal			
Wagon hitch, for 3-in-1-hitch			Opti	onal			
Ball Hitch, for 3-in-1-Hitch			Opti	onal			
Piton Fix Hitch, for 3-in-1-Hitch			Opti	onal			
Pick-up hitch, with hook and Cat. 3 drawbar			Opti	onal			
FRONT HITCH, optional							
Туре	Stan	dard or Premium Fr	ont Hitch (include	s pushbar and gro	und engaging lift a	rms)	
Category			3	N			
Lift capacity through full lift range, with Hook Style Ends (610 mm in front of the coupler, OECD), kg			3,1	50			
REAR PTO							
Туре		Electrohyd		oil-cooled multi-	disk clutch		
PTO 1,000 rpm (Engine rpm @ rated PTO speed)			1,9				
PTO 540 / 1,000 rpm (Engine rpm @ rated PTO speed)			1,950	1,950			
PTO 540E / 1,000 / 1,000E rpm (Engine rpm @ rated PTO speeds)			1,750 / 1,9	50 / 1,750			
PTO 540 / 540E / 1,000 rpm (Engine rpm @ rated PTO speeds)			1,950 / 1,7	50 / 1,950			
Stub diameter 45 mm (1-3/4 in.), 20-spline, 1,000 rpm			Stan	dard			
Stub diameter 45 mm (1-3/4 in.) 20-spline, 1,000 rpm or 35 mm (1-3/8 in.) 6-spline/21-spline, 540/1,000 rpm, shifting at the rear of the tractor			Opti	onal			
Stub diameter 35 mm (1-3/8 in.) 6-spline 540E rpm / 21-spline 1,000/1,000E rpm, or 45 mm (1-3/4 in.) 20-spline 1,000 rpm, Electronically Shiftable in Cab			Opti	onal			
Stub diameter 35 mm (1-3/8 in.) 6-spline 540/540E rpm / 21-spline 1,000 rpm, or 45mm (1-3/4 in.) 20-spline	Optional						



SPECIFICATION 7R SERIES TRACTORS

	TROS TROS TROS TROS TROS	
FRONT PTO ontional	7R 250	U
FRONT PTO, optional	Electrohydraulic switched via oil-cooled multi-disk clutch	
Type	Liectronyaraulic switched via oli-cooled multi-disk clutch	
PTO 1,000 rpm (Engine rpm @ rated PTO speed)	1,340	
Stub diameter 35 mm (1-3/8 in.), 6-spline, Type 1, 1,000 rpm, Counter-Clockwise Rotation	Optional*	
Stub diameter 35 mm (1-3/8 in.), 21-spline, Type 2, 1,000 rpm, Counter-Clockwise Rotation	Optional*	
* Availability dependent upon destination		
CAB		
Suspension	Optional – Cab Suspension or John Deere exclusive ActiveSeat™ II	
Display	Generation 4 CommandCenter™ 4200 with 8.4 inch or 4600 with 10 inch Touchscreen Display, optional Extended Display	
Seat	Standard: Cloth; Optional: perforated leather seat with active ventilation, heating and massage fund	ction
Seat Adjustment	Optional: 25° left hand and 40° right hand seat swivel; electric seat adjustment, pneumatic lumb support, seat bottom Cushion Tilt / Extend, Adjustable Backrest Bolsters	ar
Infotainment	Standard: AM/FM Radio; Optional: 6.4" touchscreen DAB+ Radio with 6.1 surround speaker system and Bluetooth	
Comfort Features	Optional: Actively cooled refrigerator, foot rests, carpet floor mat	
Lighting	Halogen or 360° LED lighting package; optional: 3 LED beacon lights	
MISCELLANEOUS		
AutoTrac™ Ready	Standard	
	Standard	
ISOBUS Implement Connection Modular Telematics Gateway (MTG)	Standard Standard	
JDLink™ with Ethernet Harnesses for CommandCenter™	Standard	
CommandCenter™ video / camera capability	1 Video input for 4200 Display, 4 Video inputs for 4600 Display; Optional: Integrated rear camer	а
Trailer Brake System	Optional; Pneumatic Dual Line System incl. Air Dryer or Hydraulic Dual Line System	
FARMSIGHT™ SERVICES		
Pre-Delivery Inspection, MyJohnDeere™ account Set-up, Machine Handover Training	Part of the FarmSight™ Services BASE Package	
Remote Machine Monitoring (incl. Expert Alerts functionality)	Part of the FarmSight™ Services BASE Package	
CAPACITIES		
Fuel tank, with e23™, I	463 Not avai	lable
Fuel tank, with AutoPowr™, I	513	
DEF tank, I	26.2	
Transmission, Differential, Hydraulic system, I	160	
DIMENSIONS AND WEIGHTS		
Wheelbase, mm	2,925	
Overall Length, mm		
Minimum length, measured from rear hitch to front weight support (less weights)	5,547 / 5,966	
Maximum length, measured from rear hitch to front hitch	5,910	
Overall Height, mm		
Maximum height, measured with 205 cm (SRI 975) rear tyres	3,424	
Minumum height, measured with 215 cm (SRI 1,025) rear tyres	3,494	
Overall Width, mm		
Overall width ¹ , in mm	2,550	
Flange to Flange width, in mm	1,892	
Ground Clearance, mm		
Front Axle Clearance ² , in mm	668	
Drawbar clearence with 205 / 215 mm tyres, in mm	420 / 463	
Turning Radius		
With 620/75R30 tyres @ 82" spacing, TLS™, m	6.4	
Weights		
Average Shipping Weight, kg ³	11,400	
Maximum Permissible Weight, kg	18,000 (on 40k transmission with front brakes),	
	16,000 (on 50k transmission or on 40k transmission without front brakes)	
TYRE SIZES		
	IE CEO (CO DO / /1CC)	
Front axle max. tyre sizes, (diameter in cm) Rear axle max. tyre sizes, (diameter in cm)	IF 650/60 R34 (166) IF 900/60 R42 (215)	

¹ Overall width dependent on tyres, axle configuration and tread settings
² Equipped with 1300 TLS™ axle, with 168 cm tyres (IF620/75R30)
³ Equipped with TLS™/AutoPowr™/Flange axle/empty front weight support/hooks with sway blocks/3 in 1 hitch rails with wagon hitch/shipping fuel/rear tyres 650/85R38 /front tyres 540/65R34

NOTHING RUNS LIKE A DEERE™

Chances are that when you need us, you need us right then and there. For advice, to solve a problem, or for a part. Reach out, we'll be there with technicians who are factory trained, ready to go to work for you, using only genuine John Deere parts and products. But our commitment to quality doesn't stop at your machine – we also have financing options available that are guaranteed to fit your budget and your plans.



This literature has been compiled for worldwide circulation. While general information, pictures and descriptions are provided, some illustrations and text may include finance, credit, insurance, product options and accessories not available in all regions. Please contact your local dealer for details. John Deere reserves the right to change specification and design of products described in this literature without notice. The green and yellow colour scheme, the leaping deer logo and the JOHN DEERE word mark are trademarks of Deere & Company.