

# 7



**JOHN DEERE**

NOTHING RUNS LIKE A DEERE

# DO MORE, FASTER

Its low weight and high horsepower rating give the 7R exceptional power density. Add the short wheelbase with a tight turning radius, and you're looking at the most versatile tractor in its segment.

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# 7R: JUST THE FACTS

## NOTABLE FEATURES

There's a lot to say about how owning a 7 Series tractor is a uniquely rewarding experience. Here's as close as we can get in 12 short paragraphs.



### 1 | NEW G5<sup>PLUS</sup> COMMANDCENTER™

Our largest screen ever. More space for your information. A faster processor for shorter boot-up times. All in glorious HD.

### 2 | 1-CLICK-GO-AUTOSETUP

Reduce in-field setup time by up to 50%: Tasks planned in the John Deere Operations Center™ automatically appear on the G5<sup>PLUS</sup> CommandCenter™ when entering the field – just one click confirms the details to start working.

### 3 | PRECISION AG

Gain unprecedented levels of profitability and sustainability from our advanced licenses like AutoTrac™ Turn Automation, AutoTrac™ Implement Guidance Passive, AutoPath™, MachineSync, and In-Field Data Sharing.

### 7 | TRUE POWER

Our engines deliver a torque rise of up to 40% and an impressive power bulge of around 10% – that's "maximum power" that is always available under any conditions.

### 8 | TRANSMISSIONS

Your choice: Fully mechanical e23™ transmission engineered to deliver maximum efficiency or our comfortable stepless AutoPowr™.

### 9 | PROVEN EFFICIENCY

Our 7R 330 comes with a highly efficient drivetrain validated by DLG PowerMix Transporttest 2.0 with impressive results: 375 g/kWh Diesel and 17 g/kWh DEF<sup>1</sup>.

<sup>1</sup> DLG PowerMix Transporttest 2.0, No. 7142 (www.dlg.org)



#### 4 | OUTSTANDING CAB

Highly effective cab suspension or ActiveSeat™ II with pro-active vibration damping, massage functions, electronic controls, 65° seat swivel, an immersive 6.1 sound system, fridge... and more.

#### 5 | COMMANDPRO™

Perfect ergonomics, driving strategy and reconfigurability.

#### 6 | EFFORTLESS STEERING

Reactive Steering gives you that 'car feeling' in your tractor. The steering wheel automatically recentres when you turn a corner and stays straight on the road.

#### 10 | EZ BALLAST

Frequently switch between field and road applications? You can add or remove 1,700 kg of weight in seconds at the touch of a button without needing to step down from the cab.

#### 11 | MORE BRAKING POWER

The new 6-disc front axle has 2 additional brakes, and a larger air compressor adds even more braking power. The 7R now has a maximum permissible weight of 18 t at 50 km/h.

#### 12 | NEXT-GEN SCV DESIGN

With the more modular SCV coupler system, it's now simpler and more affordable to customize the SCV stack by switching coupler sizes or adding a slice.

# FARM SMART, PROFIT MORE

## ALL INCLUSIVE FOR A FAST START

John Deere Precision Ag Technology is easy to use and helps you plan, monitor, execute and analyse every stage of your farming operation. Guidance solutions, automation systems and site-specific farming create many opportunities to improve your farming efficiency while boosting your sustainability and profitability.

With the StarFire™ Integrated Receiver, the G5<sup>Plus</sup> CommandCenter™ and JDLink™ connectivity, the 7R has everything you need for a quick start with precision agriculture already on board in base model. Add the free John Deere Operations Center™ and you are ready to go.



## NEW G5<sup>PLUS</sup> COMMANDCENTER™

The G5<sup>Plus</sup> CommandCenter™ brings you full HD resolution, additional memory, and increased processing power and is among the most advanced displays available.

At a massive 12.8", the screen offers about 33% more visual space and comes standard with AutoTrac™ and Section Control.

Featuring full AEF ISOBUS compatibility, the G5<sup>Plus</sup> CommandCenter™ retains the reliable and familiar user interface from Generation 4 Displays and combines the latest tech with a familiar user interface to deliver an immediate performance boost without the need to re-learn anything.





**5 YEARS OF REPEATABILITY**  
**73% FASTER PULL IN TIME**  
**17% MORE ACCURACY WITH SF-RTK**

**NEW STARFIRE™ INTEGRATED RECEIVER**

We've just made it easier and more attractive for you to work at higher accuracy levels. Now you not only get a receiver – the Operations Center also gives you an entire suite of guidance & agronomy offboard farm management tools. And thanks to the receiver's ability to communicate with GPS, GLONASS, and the new GALILEO and BEIDOU satellite constellations, you'll enjoy superior signal stability in shaded areas at any signal accuracy level.

While our standard SF1 differential correction signal is suitable for many applications, we didn't stop there. With our new StarFire™ – RTK Satellite signal, you benefit from 2.5 cm pass-to-pass accuracy, over five years of precise repeatability, and rapid initialization to acquire full accuracy without the cost of previously required RTK components and activations.



# 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 G5<sup>Plus</sup> CommandCenter™ 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.<sup>1</sup>

# 1-CLICK-GO AUTOSETUP

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

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.



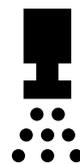
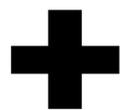
Variable application maps from affiliated software companies



**JOHN DEERE  
OPERATIONS  
CENTER™**

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

<sup>1</sup> Machine must be equipped with a Generation 4 Display or G5™ Display (with minimum SU20-J software), StarFire™ Integrated Receiver, JDLink™ connectivity and a John Deere Operations Center™ account. If not already equipped with a JDLink™ Modem (4G) a retrofit is required.



The 7R already has the necessary hardware in its basic configuration

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

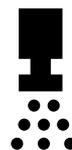
# BOOST YOUR YIELD WITH SITE-SPECIFIC FARMING

Put the right seed in the right place at the right depth for successful germination. Then apply exactly the right amount of care. John Deere Precision Ag Technology is your ticket to the benefits of site-specific farming.



## 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.



# NEXT-LEVEL AUTOMATION

On top of all premium features, you will also enjoy higher productivity from our advanced licenses like AutoTrac™ Turn Automation, AutoTrac™ Implement Guidance Passive, AutoPath™, MachineSync, and In-Field Data Sharing.

## 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.



Compared to the SF3 signal, the new StaFire™-RTK Satellite Signal delivers RTK accuracy, 5 year repeatability and fast initialization at lower entry costs and with no additional hardware required.

## MACHINE SYNC

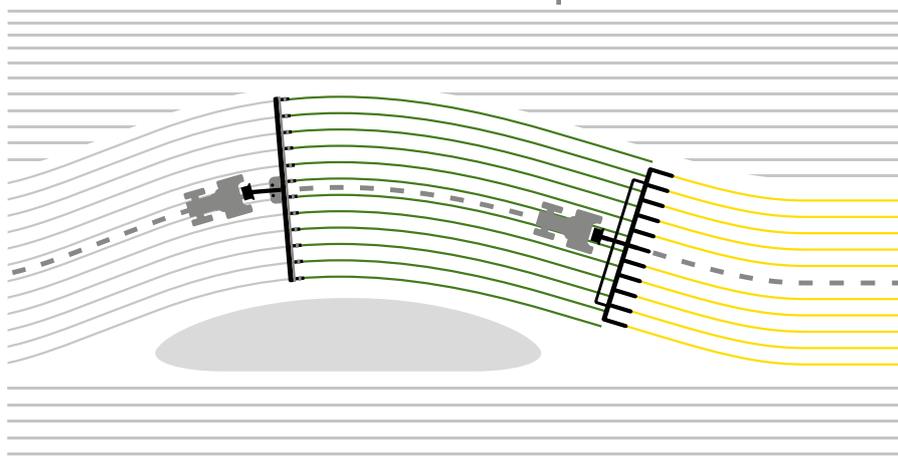
Wirelessly network multiple machines with one machine serving as the leader for precise, spill-free unloading on the go and improved harvest logistics.

## IN-FIELD DATA SHARING

With In-Field Data Sharing you can share maps and guidance lines and review the performance of up to six machines working in the same field.

## AUTOPATH™

AutoPath™ automatically creates guidance lines 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. Regardless of the width of the implement you use for planting, spraying, or harvesting, AutoPath™ ensures the tyres will always follow the planted rows and stay off the crop.



## AUTOTRAC™ IMPLEMENT GUIDANCE

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.





# WORK BETTER

## CAB COMFORT

We present a comfort and productivity experience like no other: A highly effective cab suspension or our ActiveSeat™ II, three footrests, an immersive 6.1 sound system, and an integrated fridge. Plus, the intuitive operation of our CommandARM™ and our largest screen ever – the G5<sup>Plus</sup> CommandCenter™.



## CAB SIZE

Your health and well-being are critical productivity factors. Our roomy cab design gives you the space to feel great all day.



### **SIZABLE FRIDGE**

At a capacity of 11 l, there's ample storage for even the longest of days. The inlay is removable for easy cleaning and stocking ahead of time.



### **FOOT RESTS**

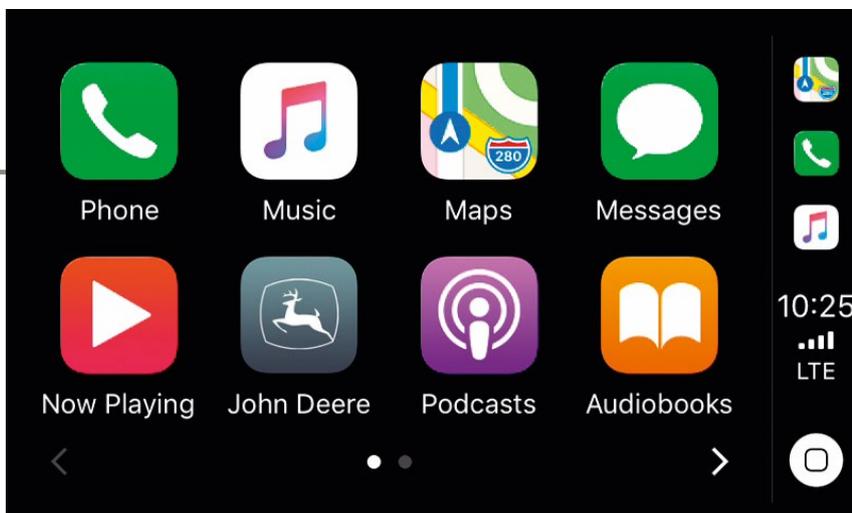
Included in all Comfort and Convenience Packages, these are truly helpful when working on steep downhill grades and sidehills or to relax your feet and legs.



# EXCELLENT

## INFOTAINMENT

The 6.5" state-of-the-art digital touchscreen radio works with Apple CarPlay and Android Auto 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 whistles you expect, including a touch screen and DAB+.

## COMFORT & CONVENIENCE PACKAGES

	SELECT	PREMIUM	ULTIMATE
Seat	Cloth Seat with Mechanical Adjustment Controls and Mechanical Lumbar Support, 8°LH/40°RH swivel	Cloth Seat with Electric Adjustment Controls and Pneumatic Lumbar Support, 25°LH/40°RH swivel	Leather Seat with Electric Adjustment Controls, Pneumatic Lumbar Support, Adjustable Backrest Bolsters, Seat Heating, Ventilation and Massage. 25°LH/40°RH swivel
Infotainment	AM/FM Radio, Auxiliary Input Jack, and Bluetooth Microphone, 4 speakers	6.5" Touchscreen Radio with Smart Phone Interface and Voice Recognition, Apple CarPlay, Auxiliary Input Jack, USB Audio and Video Input, Android Auto App, Bluetooth Microphone, DAB+, 6 speakers plus subwoofer	6.5" Touchscreen Radio with Smart Phone Interface and Voice Recognition, Apple CarPlay, Auxiliary Input Jack, USB Audio and Video Input, Android Auto App, Bluetooth Microphone, DAB+, 6 speakers plus subwoofer
Business band ready	■	■	■
2x USB-C and 2x USB-A charging points & 12 V	■	■	■
Dual tilt column	■	■	■
Foot rests	■	■	■
Refrigerator	-	■	■
RH accessory rail, 230 V outlet	-	■	■
Carpet floor mat	-	-	■
Leather wrapped steering wheel	-	-	■

Legend: ■ base; - excluded

# ACCESSIBLE LUXURY

## CAB ACCESS AND ACTIVESEAT™ II

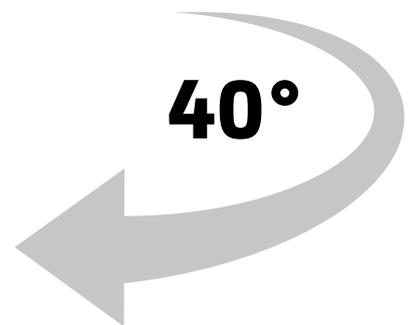
Enjoy less back muscle stress and better posture with easier breathing from a super comfortable seat that feels amazing and keeps you relaxed and alert all day long.

### EASY CAB ACCESS

The steps have two width settings. The door handle is lower and opens wider with an improved mirror position and coming-home & service lights.



40°



## ACTIVESEAT™ II

The Active Seat II\* uses quick-reaction electric suspension technology to isolate you from up to 90% of vertical movements. Enjoy superior ride-quality in the roughest of conditions.



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



### PERFORATED LEATHER SEAT

Our 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 absolutely unique.

### MASSAGE FUNCTION

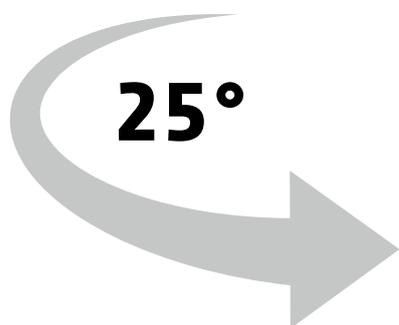
Yes, this is the first ever tractor driver's seat with built-in massage elements. Loosen up, relax and recover during long work hours to end your workday refreshed.

### 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.



\*Not available with cab suspension

# INTUITIVE CONTROL

## COMMANDARM™

The 7 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.

## G5<sup>PLUS</sup> COMMANDCENTER™

Think 35% larger, 75% faster. All 7R models come with the G5<sup>PLUS</sup> CommandCenter™, which features our largest screen ever and a faster processor for fast boot-up times – all in glorious high-definition 1080p.

## 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™ and the electronic joystick.



## CORNER POST DISPLAY

Your essential data now comes in pin-sharp graphics on customisable screens. Information has never looked this beautiful.



### G5<sup>PLUS</sup> EXTENDED MONITOR

The G5<sup>PLUS</sup> Extended Monitor doubles the already massive 12.8" screen of the G5<sup>PLUS</sup>, so you can monitor more functions simultaneously 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. Thanks to ISOBUS you enjoy a seamless user interface with no need for an additional display for 3rd party implements.



**1080P HIGH DEFINITION**  
**35% LARGER**  
**75% FASTER**



### ELECTRONIC JOYSTICK

The electronic Joystick is completely reconfigurable and can control all SCVs, front hitch and even ISOBUS functions. All settings can be saved and reloaded in the Settings Manager.

### 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.



# 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 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™.

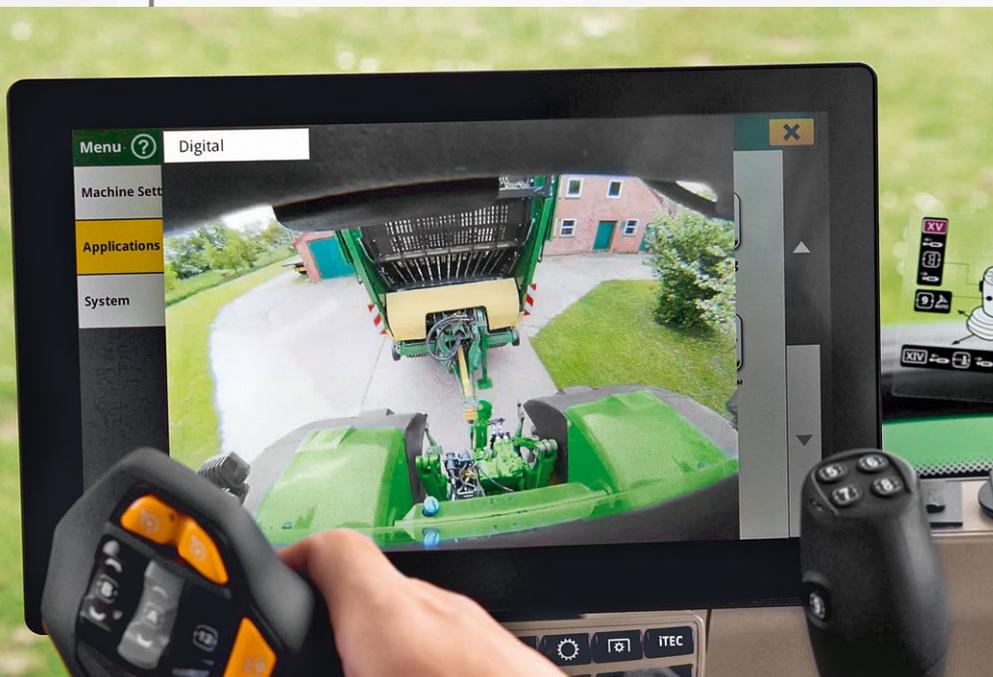
The new LED lights provide true 360° illumination in spectacular daylight-quality.





## CRYSTAL-CLEAR DIGITAL IMAGES

Enter a new era of camera sophistication: As a perfect match to the high-resolution screen of the G5<sup>Plus</sup> CommandCenter™, the ultra-sharp images from the digital rear camera deliver a spectacularly realistic view to the rear.



## 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



### COMFORT ZONE

Our new rear window tint keeps your cab cooler and makes instrument screens easier to read on sunny days.



### CONVENIENCE LIGHTS

Activated from a switch at the cab entry steps, the 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.



### EXCELLENT ALL-AROUND VISIBILITY

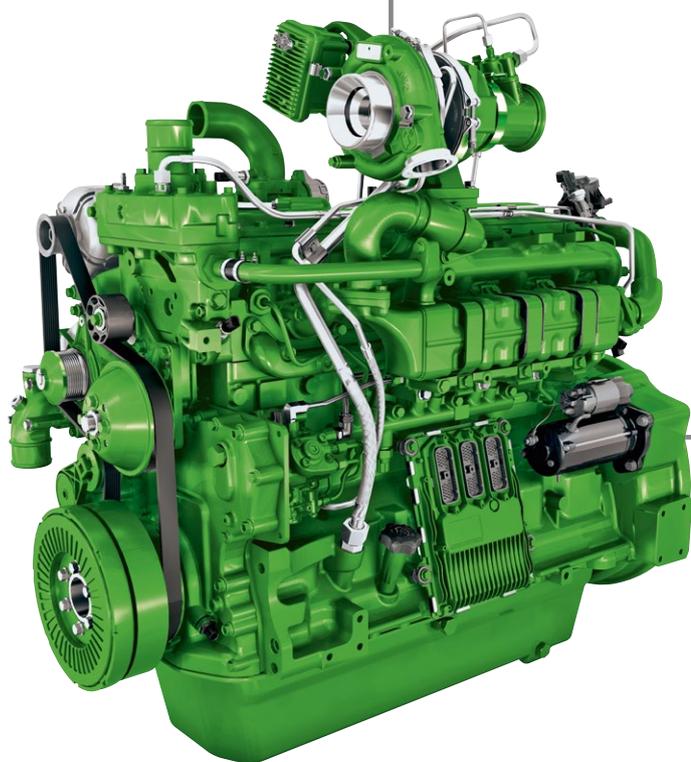
The sleek hood design gives you an optimal view to the front of the tractor, while the elevated seat position and expansive glass panes provide an unobstructed view to the sides and rear as well.

# 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.

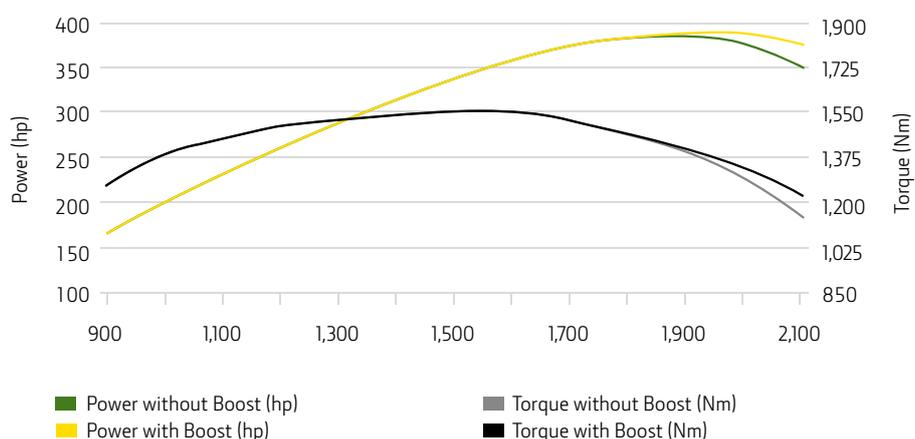




## POWER DENSITY

Where does the acclaimed John Deere pulling power come from? The power decal on the hood merely shows the rated engine power. But there's more: our engines deliver a torque rise of up to 40% and an impressive power bulge of around 10% – always available under all conditions. For sudden extra loads with an engine rpm drop, the torque increases to keep you in the constant power range. On the road or in PTO applications, the engine's Intelligent Power Management can unleash an extra boost of up to 30 hp.

## THE 7R 350: PURE PULLING POWER



## ENGINES

MODEL	7R 270	7R 290	7R 310	7R 330	7R 350
Rated engine HP (ECE-R120) "Power on the hood"	270	290	310	330	350
Max. engine HP without IPM (ECE-R120) "Power in the field"	297	319	341	363	385
Max. engine HP with IPM (ECE-R120) "Power in transport & PTO"	305	332	352	373	388
Engine	6.8 lPSS	9.0 lPVS	9.0 lPVS	9.0 lPVS	9.0 lPVS

# FULLY MECHANIC – FULLY EFFICIENT

## e23™ TRANSMISSION

Our fully mechanical e23™ transmission is engineered to deliver maximum efficiency and robustness for real arable farming and some demanding transport applications.

## EFFICIENCY MANAGER™

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™ combines the benefits of a mechanical transmission with the ease of use of stepless transmissions.

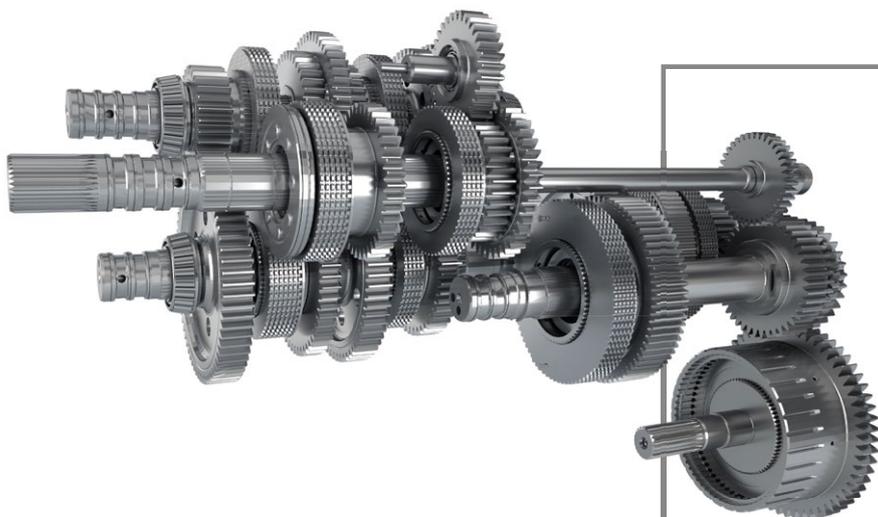
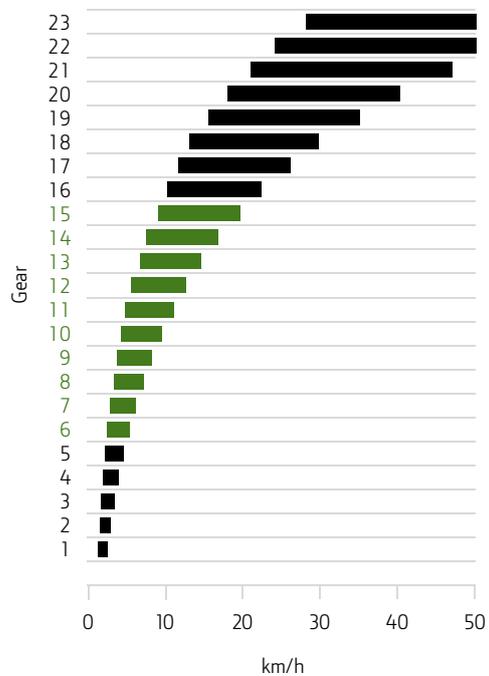


## REDUCE RPM (ECO SPEED)

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™.



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 1,500 rpm (40 km/h) or 1,800 rpm (50 km/h) for optimal fuel savings.

# INFINITE SPEED ADJUSTMENT

## AUTOPOWR™

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 1,600 rpm, 40 km/h at 1,300 rpm with CommandPRO™.

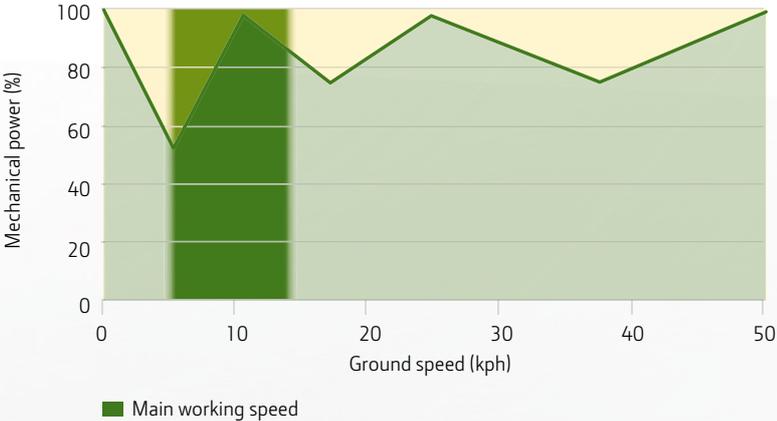
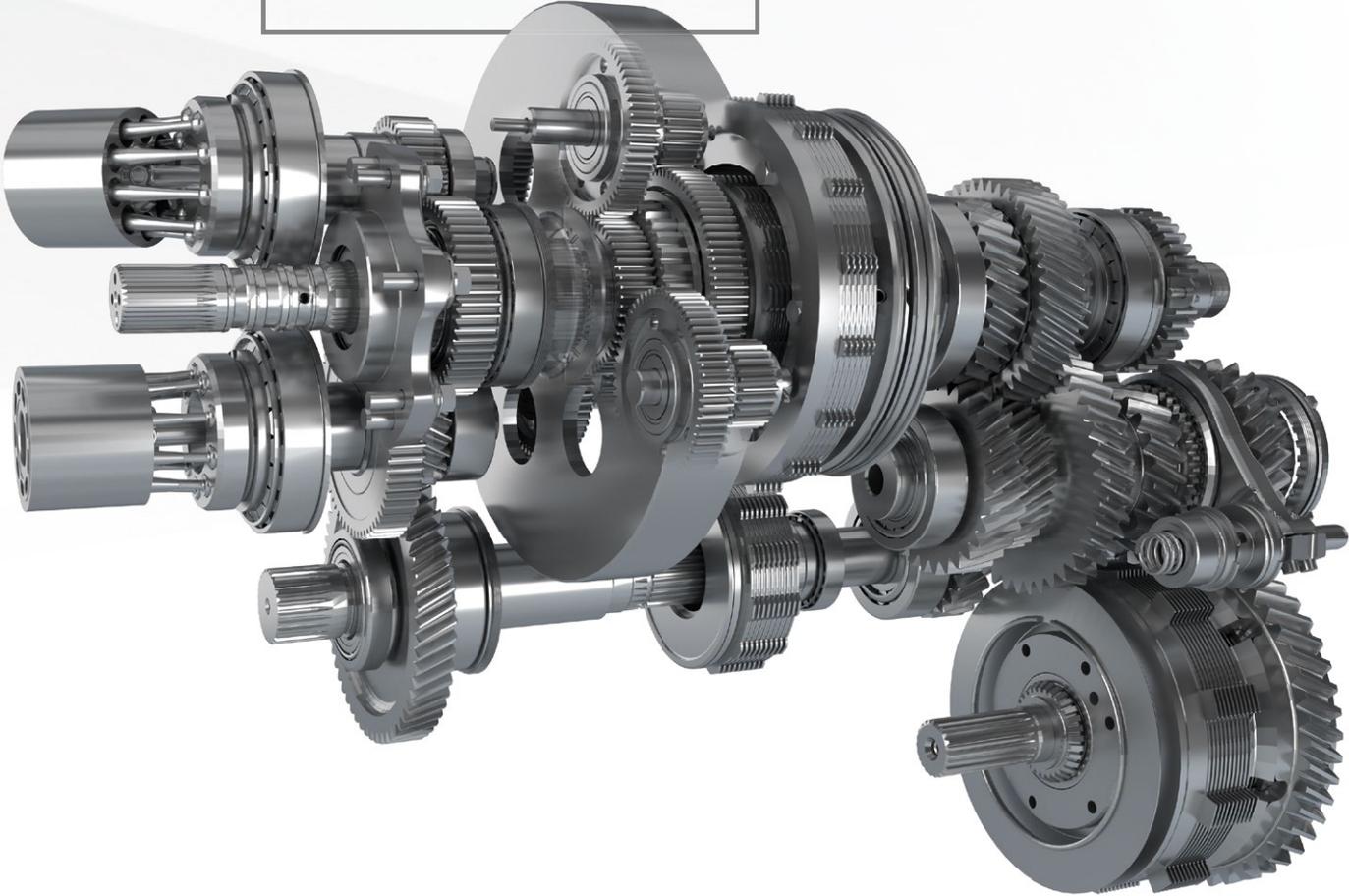
### TWO CONTROL LAYOUTS

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



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

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



**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.

# THE ERGONOMIC DRIVER INTERFACE

COMMANDPRO™

***“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)

Mastering the power of the 7 Series tractors is simple with the CommandPRO™ joystick and its 11 reconfigurable buttons. It's the ultimate driver interface for your AutoPower™ transmission and makes every work day more comfortable, efficient 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
- Simultaneous active active-pedal 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 become more productive from the moment you take the wheel.

\*only available with AUX-N AEF 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

# LESS LOSSES – HIGHER PULLING POWER



**BUILT FOR EFFICIENCY:  
THE COOLING PACKAGE  
DOES NOT COMPROMISE  
ON COOLING SURFACE  
AND PROVIDES HIGH-RATE,  
UNRESTRICTED AIRFLOW.**

## 95%\*

**RATED POWER  
+ 10% JD POWER BULGE  
– COOLING & AUXILIARY  
LOSSES  
– TRANSMISSION & AXLE  
LOSSES  
= REAL DRAWBAR  
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 steplless AutoPowr™ transmission excels with a very high share of mechanical drive.

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

\*Nebraska Tractor Test Laboratory 2015 Test 2113 Summary 976  
 (7310R e23™ = 216 kW max drawbar power vs. 228 kW rated engine power)  
 DLG Powermixtest Nr.: 2014-0437; 10.2014; www.dlg-test.de

# A MORE RELAXED DAY

## RIDE COMFORT

When you're logging long hours, comfort becomes vital. Our cab suspension and Triple-Link Suspension (TLS™) deliver optimal ride quality in the field and on the road to keep you sharp and feeling great.



### MORE BRAKING POWER

The new 6-disc front axle has 2 additional brakes, and a larger air compressor adds even more braking power. The 7R now has a maximum permissible weight of 18 t at 50 km/h.



### CAB SUSPENSION

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.



### 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 Reactive 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.

# A JOY TO DRIVE

## STEERING SYSTEMS

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



## REACTIVE STEERING

Welcome to a new premium automotive-style steering option now available for all 7 Series Tractors. If you spend much time in transport and on the road, you'll love Reactive Steering. Enjoy exceptionally comfortable and precise line-holding on highways, and experience effortless steering coming in and out of curves on the road, leaving roundabouts, or entering a T-junction, thanks to the self-centring functionality of Reactive Steering.



Conveniently turn Reactive Steering on or off via the CommandCenter™ to match your driving preferences or application.



### **INCREASED STEERING CAPACITY**

Experience improved handling and control, especially with heavy front implements and at low speeds, thanks to a 50% steering capacity boost compared to previous models.



### **ACTIVECOMMAND STEERING (ACS™)**

Maximize steering authority and comfort, especially at higher speeds and on uneven roads. ActiveCommand Steering (ACS™) 2 is an optional electronic steering system that uses a gyroscope to sense any tractor yaw, automatically compensates for drift to keep you perfectly on track and enables variable ratio steering.

# 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 7 Series tractors offer several options to provide the optimum balance.

Pick-up weights available in 900 kg, 1,150 kg, 1,500 kg and 1,800 kg versions. Up to 22 front suitcase weights of 50 kg each.



## FRONT WEIGHTS

Use suitcase weights to achieve optimised weight distribution between the rear and front axles, and improve the tractive performance of your 7R with our pick-up weights.





## REAR WHEEL WEIGHTS

Rear wheel weights enable correct ballasting of the rear axle for improved traction. Available with 70 kg, 205 kg, 620 kg (inner only) and 72 kg, 530 kg and 900 kg outer wheel weights.



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

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

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



## ADD HEAVY BALLAST – WITH A LIGHT TOUCH

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 1,700 kg weight in seconds, at the touch of a button without needing to step down from the cab.

Exclusive 1,700 kg EZ Ballast weight for optimal ballasting of the 7R



# LIFT IT ALL

## HITCH OPTIONS

No matter what or how much – 7 Series 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™ 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

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



### 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 Category 4 drawbar guarantees a maximum durability when handling the most demanding implements in any field application.

# ENDLESS POWER

## HYDRAULICS AND PTO

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

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



### NEXT-GEN SCV DESIGN

Our new, more adaptable and modular SCV coupler system makes it simpler and more affordable to customise the SCV stack by adding an additional SCV or switching coupler sizes from ½ inch to ¾ inch without having to replace the entire SCV slice.



With PTO options like the 540E/1,000/1,000E, 7 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.



# POWERGARD™

STATUS: PROTECTED



When you protect your equipment with a PowerGard™ Protection plan<sup>1</sup>, your business has the steady machine uptime and nonstop peak performance it needs to thrive.

A PowerGard™ Protection plan<sup>1</sup> 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 HOURS**

**100%**

**REPAIR COST  
CONTROL**

**0%**

**REPAIR COST  
INFLATION**

**HIGHER**

**RESALE VALUE**

**UPTIME**

**IN THE FIELD**

<sup>1</sup>At participating dealers only. Requires a maintenance plan.

# SAVE MORE WITH TOTAL LIFETIME CARE

## POWERGARD™

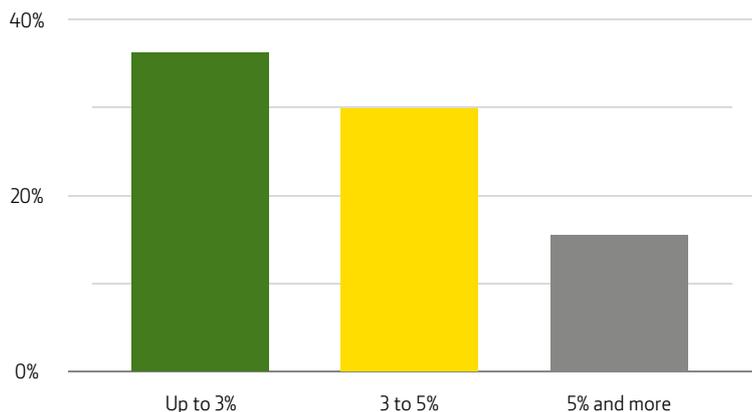
Combining PowerGard™ Protection with a Maintenance Plan gives you better cost control, protects you against unforeseen expenses, and increases your tractor's resale value.<sup>2</sup>

Gain efficiency with our digital maintenance and repair management. Connect your machine with your preferred dealer service technicians, and they will automatically take care of your regular maintenance intervals.<sup>3</sup>

**FULL SERVICE COST CONTROL**

**UP TO 5%  
HIGHER RESIDUAL VALUE ON AVERAGE**

### USED TRACTOR RESALE VALUE ADVANTAGE



Research conducted by the WEIHENSTEPHAN-TRIESDORF University of Applied Sciences in spring 2022 shows that when buying a used tractor, customers are willing to pay up to 5% more on average, for tractors that were properly serviced and maintained by a dealer.



<sup>2</sup> At participating dealers  
<sup>3</sup> Customer consent required

## SPECIFICATIONS

	7R 270	7R 290	7R 310	7R 330	7R 350
<b>ENGINE PERFORMANCE</b>					
Rated Engine Power (ECE-R120), hp (kW)	270 (199)	290 (213)	310 (228)	330 (243)	350 (257)
Max Engine Power at 1,900 rpm (ECE-R120), hp (kW)	297 (218)	319 (235)	341 (251)	363 (267)	385 (283)
Max Engine Power with IPM at 1,900 rpm (ECE-R120), hp (kW)	305 (224)	332 (244)	352 (259)	373 (274)	388 (285)
Intelligent Power Management, hp	30	30	30	30	25
Constant Power Range, rpm	1,550 - 2,100	1,500 - 2,100	1,500 - 2,100	1,500 - 2,100	1,600 - 2,100
Engine Torque Rise, %	38	40	40	40	40
Engine Power Bulge, %	10	10	10	10	10
Engine Peak Torque @ 1,600 rpm, Nm	1,245	1,358	1,452	1,545	1,580
<b>ENGINE</b>					
Manufacturer	John Deere Power Systems				
Type	John Deere PowerTech™ 6.8 L (B8 Diesel Compatible), Diesel, in-line, 6-cylinder, wet-sleeve cylinder liners with 4 valves-in-head	John Deere PowerTech™ 9.0 L (B8 Diesel Compatible), Diesel, in-line, 6-cylinder, wet-sleeve cylinder liners with 4 valves-in-head			
Aftertreatment	longlife & maintenance-free dieselparticlefilter (DPF), Dieseloxygenationfilter (DOC), Selective Catalytic Reduction (SCR) with DEF				
Aspiration	Dual turbochargers, variable geometry turbo with fixed geometry turbo in series – air-to-air aftercooling and cooled exhaust gas recirculation	Single turbocharger, variable geometry turbo – air-to-air aftercooling and cooled exhaust gas recirculation			
<b>TRANSMISSION OPTIONS</b>					
<b>e23™ TRANSMISSION WITH EFFICIENCY MANAGER™</b>					
23 Forward- / 11 Reverse Gears, 40 km/h, left & right hand reverser		Base - 40 km/h @ 1,600 rpm with 205 cm tyres, Option - 40 km/h @ 1,520 rpm with 215 cm tyres			not available
23 Forward- / 11 Reverse Gears, 50 km/h, left & right hand reverser		Option – 50 km/h @ 1,900 rpm with 205 cm tyres, Option – 50 km/h @ 1,800 rpm with 215 cm tyres			not available
<b>AUTOPOWR™</b>					
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 – 50 km/h @ 1,700 rpm with 205 cm tyres, Option – 50 km/h @ 1,620 rpm with 215 cm tyres			
<b>AXLES</b>					
<b>REAR AXLES</b>					
110 x 2,550 mm (4.33 x 100.4 in.), variable range		Base			not available
120 x 2,550 mm (4.72 x 100.4 in.), variable range		Option			Base
Flange Axle, 335 mm bolt circle			Option		
<b>FRONT AXLES</b>					
1300 Series MFWD with Triple Link Suspension		Base			not available
1300 Series MFWD with Triple Link Suspension and with Wet Disk Front Brakes		Option for 40 km/h, Mandatory for 50 km/h or for 18,000 kg Maximum Permissible Weight			Base
<b>DIFFERENTIAL LOCK</b>					
Differential Lock – Front and Rear Axle	Full-locking electrohydraulic – On/Off Auto Mode depending on Steering Angle				

	7R 270	7R 290	7R 310	7R 330	7R 350
<b>ELECTRICAL SYSTEM</b>					
Alternator/Battery	Standard: 210 amps / 12 Volt Option: 250 amps / 12 Volt				
<b>STEERING</b>					
Steering column type	Tilt & telescope steering with memory function				
Hydraulic power steering	Load sensing hydraulic w/ flow metering with electric back-up pump				
Reactive Steering	Optional – Load-reactive steering system with self-centering steering behavior.				
ActiveCommand Steering 2 (ACS™ 2)	Optional – Steering system with ability to select variable or fixed ratio steering mode, adjustable steering wheel resistance and adjustable steering sensitivity. System includes Dynamic Road Wheel Offset Control, full electronic steering control, passive tactile feedback and electric back-up pump				
<b>HYDRAULIC SYSTEM</b>					
Type	Closed-center, pressure & flow compensated system (PFC) with load sensing				
Main pump, axial piston (displacement)	Base: 63 cm <sup>3</sup> – Optional: 85 cm <sup>3</sup>				
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 cm <sup>3</sup> pump, l/min	162				
Rated flow, 85 cm <sup>3</sup> pump, l/min	223				
Maximum flow at a single Rear SCV, l/min	132				
Front SCV's	1 SCV in base with Front Hitch, 2 SCV's optional with Front Hitch				
Available flow at Front SCV's, l/min	126				
Oil Take out capacity, l	Base: 65 / optional with auxiliary tank: 85				
Power beyond couplers	Optional (1/2 inch or 3/4 inch couplers)				
Mid mount electrohydraulic valve stack	Optional, with 3 independent functions for an integrated operation of mid-mounted implement or front loader				
<b>REAR HITCH</b>					
Type	Electrohydraulic Lower Link Sensing; load & depth control, infinite mix, float				
Coupler System	Walterscheid Hook Style Ends				
Lower Link Stabilization	Sway Blocks or Deluxe Sway Stabilizers				
Category	3/3N				
Lift capacity through full lift range, (610 mm behind the coupler, OECD)	Base – 6,900 kg Option – 7,850 kg (requires Flange or 120 mm axle)				
Maximum Lift capacity, measured with optional hitch (at hook ends, OECD)	13,010 kg				
Center Link	Option – Hydraulic Center Link – Cat. 3 (90 mm)				
<b>DRAWBAR &amp; TRAILER HITCH</b>					
Drawbar	Cat. 3 with 38 mm pin / Cat. 3 with 38 mm pin with heavy duty support / Cat. 4 with 50 mm pin with heavy duty support		Cat. 4 with 50 mm pin with heavy duty support		
Maximum Vertical Load (Please check country specific limitations)	2,766 kg with Cat. 3; 3,000 kg with Cat. 3 HD and Cat. 4 HD		3,000 kg with Cat. 4 HD		
3-in-1-hitch, with Cat. 3 drawbar	Optional		not available		
3-in-1-hitch, with Cat. 4 drawbar	Optional				
Optional inserts for 3-in-1 hitch rail	80 mm Ball Hitch, Piton Fix Hitch, Trailer Hitch				
Pick-up hitch, with hook and Cat. 3 drawbar	Optional				
<b>FRONT HITCH, optional</b>					
Type	Standard or Premium Front Hitch (includes pushbar and ground engaging lift arms)				
Category	3N				
Lift capacity through full lift range, with Hook Style Ends (610 / 0 mm in front of the coupler, OECD), kg	3,150 / 3,500				

	7R 270	7R 290	7R 310	7R 330	7R 350
<b>REAR PTO</b>					
Type	Electrohydraulic switched via oil-cooled multi-disk clutch				
PTO 1,000 rpm (Engine rpm @ rated PTO speed)	1,950				
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 / 1,950 / 1,750				
PTO 540 / 540E / 1,000 rpm (Engine rpm @ rated PTO speeds)	1,950 / 1,750 / 1,950				
Stub Shafts	Base – 45 mm (1-3/4 in.), 20-spline, Optional – 35 mm (1-3/8 in.) 6-spline / 21-spline,				
<b>FRONT PTO, optional</b>					
Type	Electrohydraulic switched via oil-cooled multi-disk clutch				
PTO 1,000 rpm (Engine rpm @ rated PTO speed)	1,940				
Stub Shafts	35 mm (1-3/8 in.) 6-spline or 21-spline (availability dependent upon destination)				
<b>CAB</b>					
Suspension	Optional – Cab Suspension or John Deere exclusive ActiveSeat™ II				
Seat	Base: Cloth; Optional: perforated leather seat with active ventilation, heating and massage function				
Seat Adjustment	Optional: 25° left hand and 40° right hand seat swivel; electric seat adjustment, pneumatic lumbar support, Adjustable Backrest Bolsters				
Infotainment	Base: AM/FM Radio; Optional: 6.4" touchscreen DAB+ Radio with 6.1 surround speaker system and Bluetooth				
Comfort Features	Base: Foot rests; Optional: Actively cooled refrigerator, carpet floor mat, tinted rear window				
Lighting	Halogen or 360° LED lighting package; optional: 3 LED beacon lights				
<b>INTEGRATED TECHNOLOGY</b>					
CommandCenter™ Display	Standard – 32.5 cm (12.8 in) G5 <sup>Plus</sup> CommandCenter™ Display, Optional – 32.5 cm (12.8 in) G5 <sup>Plus</sup> CommandCenter™ Display with G5 <sup>Plus</sup> Extended Display				
Integrated StarFire™ Receiver	Cab roof integrated StarFire™ receiver – Standard SF1 (+/- 15 cm), optional SF-RTK (+/- 2,5 cm) accuracy				
Permanent Licenses	AutoTrac™, Section Control, Variable Rate Control, Documentation, Data Sync, Over-the-Air Updates, Remote Display Access				
Optional G5™ Advanced Licenses	AutoTrac™ Implement Guidance, AutoTrac™ Turn Automation, AutoPath™, In-Field Data Sharing, Machine Sync, SF-RTK, AutoTrac™ RowSense™/Vision				
Connectivity Hardware	Includes integrated cab wiring harness, antenna, JDLINK™ Modem (MTG) and Ethernet harnesses. Ethernet harnesses may vary per configuration.				
Connectivity Subscription	Connectivity service is subject to country availability. JDLINK™ connectivity can be enabled in John Deere Operations Center™.				
Connectivity options	Tractor Implement Management (TIM), Rear Implement Ethernet connector for High-Speed ISOBUS				

**A | WHEELBASE**

2,925 mm

**B | OVERALL LENGTH**

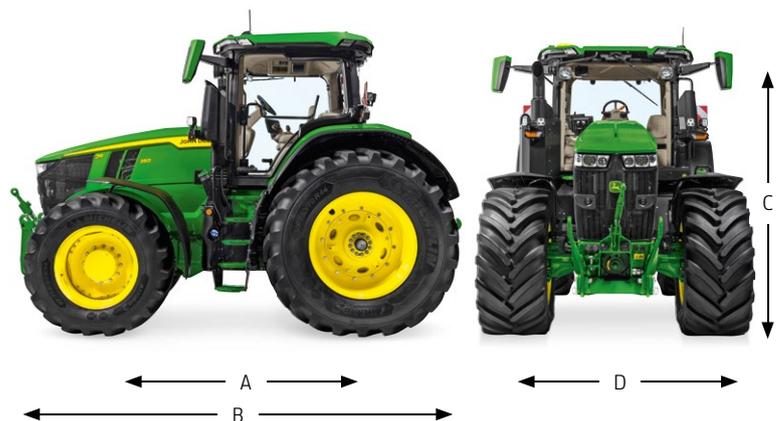
5,910 mm, measured from rear hitch to front hitch

**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 270	7R 290	7R 310	7R 330	7R 350
<b>MISCELLANEOUS</b>					
ServiceADVISOR Remote	Optional				
CommandCenter™ video / camera capability	4 analog and 2 digital Video inputs for G5 <sup>Plus</sup> Display; Optional: Integrated digital rear camera				
Trailer Brake System	Optional; Pneumatic Dual Line System incl. Air Dryer and/or Hydraulic Dual Line System				
Ballasting option	Industry exclusive EZ Ballast system – attaching/detaching 1,700 kg weight block out of the cab				
<b>FARMSIGHT™ SERVICES</b>					
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				
<b>CAPACITIES</b>					
Fuel tank, with e23™, l	463			not available	
Fuel tank, with AutoPowr™, l	513				
DEF tank, l	26.2				
<b>DIMENSIONS AND WEIGHTS</b>					
Wheelbase, mm	2,925				
<b>OVERALL LENGTH, mm</b>					
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				
<b>OVERALL HEIGHT, mm</b>					
Minimum height, measured with 215 cm (SRI 1025) rear tyres	3,494				
<b>OVERALL WIDTH, mm</b>					
Overall width <sup>1</sup> , in mm	2,550				
Flange to Flange width, in mm	1,892				
<b>GROUND CLEARANCE, mm</b>					
Maximum	670				
<b>TURNING RADIUS</b>					
Minimum turning radius, m <sup>2</sup>	6.4				
<b>WEIGHTS</b>					
Average Shipping Weight, kg <sup>3</sup>	11,400				
Maximum Permissible Weight, kg	18,000				
<b>TYRE SIZES</b>					
Front axle max. tyre sizes, (diameter in cm)	VF 710/55 R34 (168)				
Rear axle max. tyre sizes, (diameter in cm)	VF 900/60 R42 (215) / VF 750/70 R44 (218)				

<sup>1</sup> Overall width dependent on tyres, axle configuration and tread settings

<sup>2</sup> with 620/75R30 tyres @ 82" spacing, TLS

<sup>3</sup> 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.



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