

# R41 SERIES

WITH 40i & 50i SPRAYERS

**POWERFUL  
TRACTOR +  
POWERSPRAY™  
WET SYSTEM**



**JOHN DEERE**

NOTHING RUNS LIKE A DEERE



**FEEL NO LIMITS**
















**ACHIEVE MORE: WITH A  
THOROUGHLY UPGRADED  
CAB AND THE LATEST  
APPLICATION TECHNOLOGY**

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# FEEL NO LIMITS

The R41 series with 40i & 50i sprayers is packed with the latest technologies for maximum productivity and efficiency. Experience the performance, versatility and speed of our new champions from their spacious new comfort cab.

## 1 | VERSATILITY

Change tread widths hydraulically to fit row widths and tramlines. Minimise crop damage with 2-wheel, 4-wheel, or crab steering. Reduce soil compaction with VF technology tires.

## 2 | ENGINE FORWARD DESIGN

Located up front with easy service access, the engine optimally counterbalances the implement. It now also meets Stage V emission requirements.

## 3 | CONNECTIVITY INSIDE

Integrated JDLink™ telematics terminal and JDLink™ connectivity to enable Connected Farm Management and John Deere Connected Support™.

## 4 | NEW CAB ENVIRONMENT

It's a new level of comfort and convenience in the cab: All controls right where you'd want them, a strikingly unobstructed view, and Category IV cab air filtration compliance.





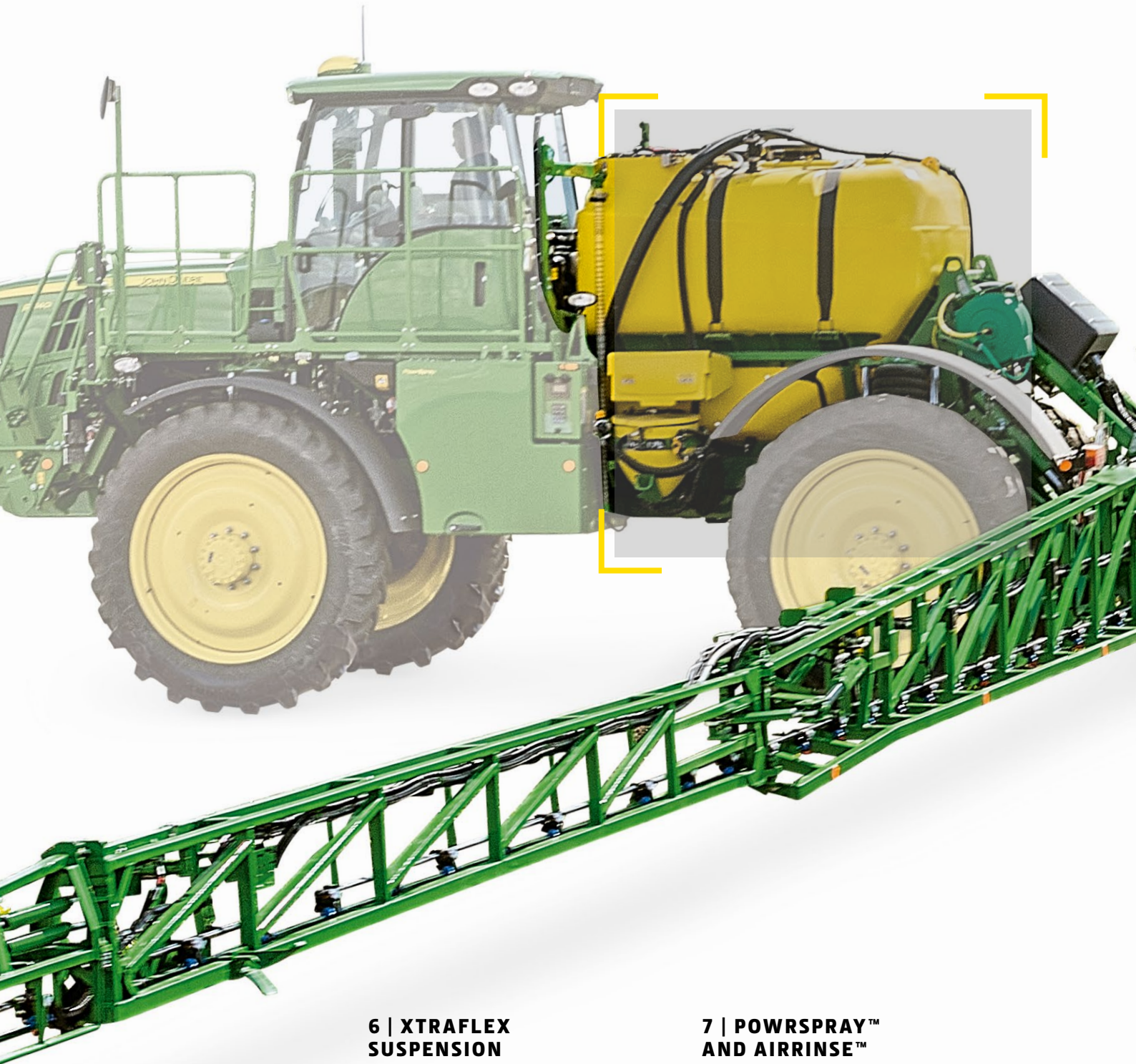


## 5 | QUADCONTROL TRANSMISSION

Move with precision and master application accuracy with ease, thanks to the new cruise control and individual wheel slip control features.







## 6 | XTRAFLEX SUSPENSION

Enjoy the added comfort of individual pneumatic wheel suspension with automatic self-levelling: Each wheel has up to 200 mm of vertical travel to adapt to uneven surfaces without bumps or jolts.

## 7 | POWRSPRAY™ AND AIRRINSE™

From the operator station, fast filling, benchmark application accuracy, power agitation and fast efficient rinsing is yours at the touch of a Solution Command button.



## 8 | JOHN DEERE NOZZLES

You have access to a wide range of high-quality nozzles for applying chemicals and fertilisers in all crops and conditions.

## 9 | TERRAINCOMMAND PRO

Waste less and protect better. Fully automated boom height and roll control with Active Centre Frame Control adjusts the boom centre-frame movement for unsurpassed boom position accuracy.

## 10 | LARGE SOLUTION TANK

Handle the tightest application deadlines with ease. The 4,000-litre 40i and 5,000-litre 50i sprayers are high performers for large area coverage and a wide variety of crops.

## 12 | EXACTAPPLY™

Cover each and every hectare with the same level of efficacy and minimise the overlaps at the nozzle level, thanks to ExactApply™.



**BOOMS UP  
TO 36 M WIDE**

## 11 | BOOM PORTFOLIO

Both our carbon\* and steel booms are available to a maximum width of 36 m. Carbon is six times stronger, but much lighter than traditional materials. It is also corrosion-resistant with maximum durability.

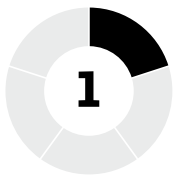
\*Carbon fibre booms are not available in the UK.



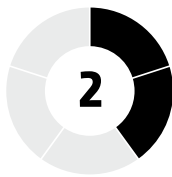
# MORE ABOUT YOU, ALL ABOUT RESULTS

You already know exactly what to do – we build the R4i series with 40i & 50i sprayers so that you can do it better. From planning and documentation, filling and transport, to application, rinsing and dilution – you'll get every step just right, and finish faster than ever.

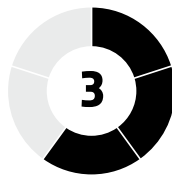
Explore how peerless boom ride quality, application precision, a new level of operator comfort and intuitive machine control combine to deliver a more profitable experience.



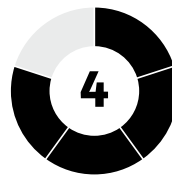
Documentation



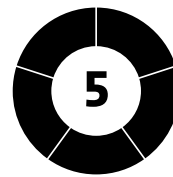
Filling



Transport



Application

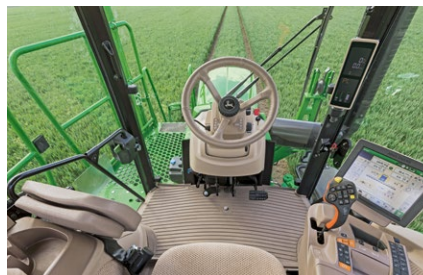


Rinsing and dilution



## HIGH VOLUME PRECISION

In conjunction with ExactApply™, PowrSpray™ delivers benchmark application accuracy at any speed or pressure, with minimal overlap.



## BIG COMFORT

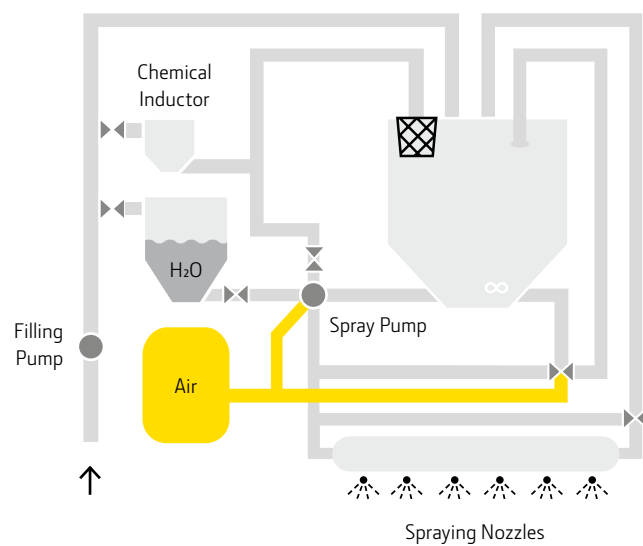
Category IV cab air filtration standard-compliant, our new cab gives you room to operate with ease, smoothly riding on the XtraFlex wheel suspension, and puts you in full control with the 4640 Universal Display and the revamped CommandARM™.







Boom ride quality – High speed application in challenging terrain becomes a smooth ride thanks to the combination of TerrainCommand Pro with Active Centre Frame Control.



PowrSpray™ – Its unique 2-circuit design facilitates fast and efficient filling, application and agitation, with push-button control.





# PLANNING FOR PRODUCTIVITY

## CONNECTED FARM MANAGEMENT

The John Deere Operations Center is your farming management portal of choice for collecting and visualising agronomic and machine information. Showing you all essential information at a glance, it helps you make fact-based decisions quickly and easily.



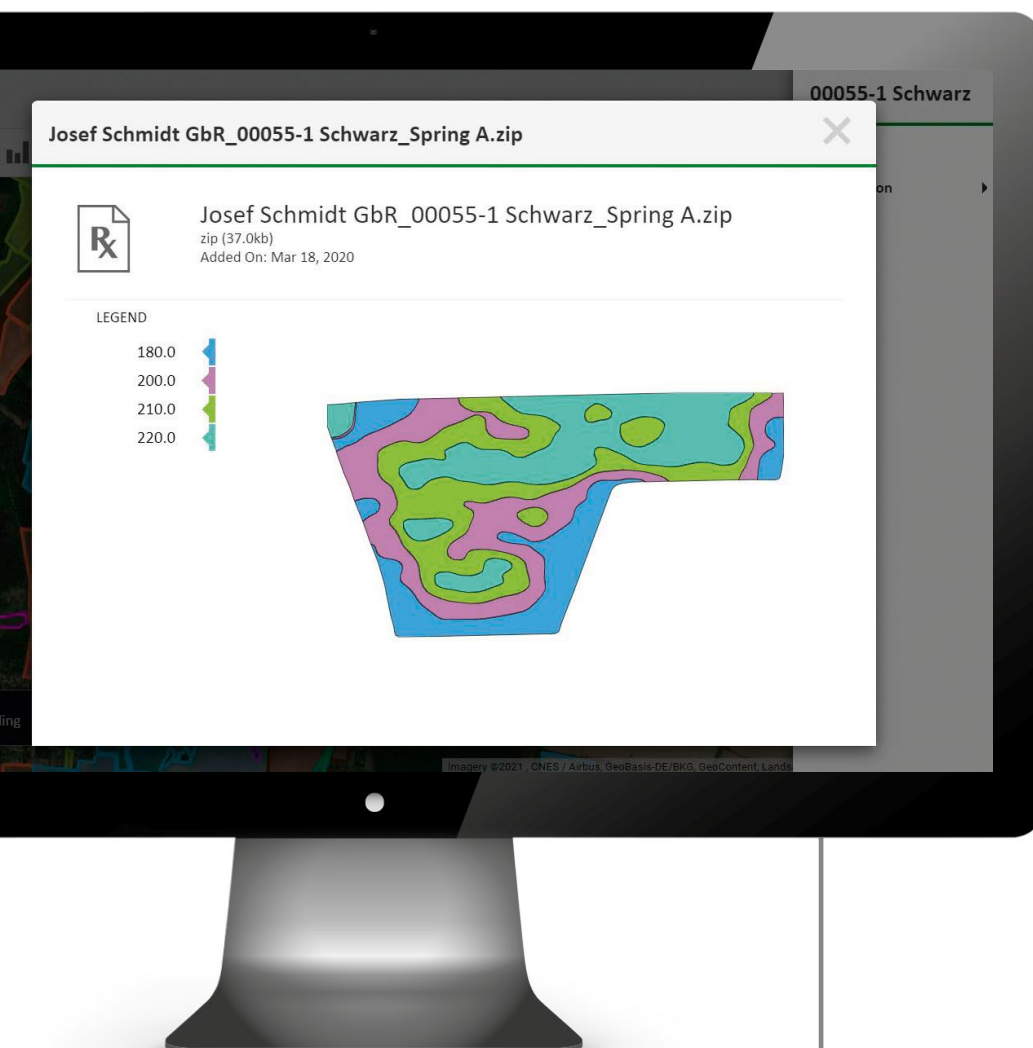
The Operations Center Web or Mobile portal connects you to your machines and your fields from one central location. It also allows you to seamlessly exchange information with your John Deere dealer, your contractors or other trusted partners.

- Raise your efficiency in the office with streamlined administrative workflows
- Generate documentation faster and easier than ever
- Have the information from your implements readily and conveniently available in one central hub
- Exchange data with trusted partners while maintaining total control over it

### START WORKING WITHOUT DELAY

Conveniently plan your work during off-season, so that everything will go smoothly during peak season. You can easily create, edit or delete display set-up data like clients, farms and fields, boundaries, guidance lines or machine and implement off-sets in your personal Operations Center account.

Wirelessly transfer setup data and prescription maps to your Gen4 display before you start, and these work details will be displayed when you enter the field. Then, after you finish, your documentation data is available for further analysis in your Operations Center.



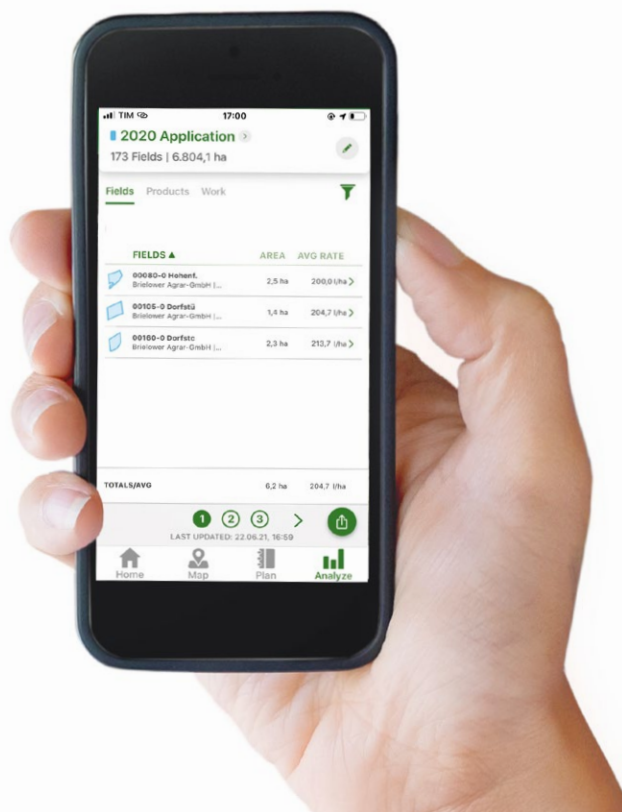
## VARIABLE RATE APPLICATION\*

Just upload a prescription map to your Gen 4 display and you're ready to go with variable rate application! Alternatively, connect a crop sensor to the display.

\*Ask your John Deere dealer for more information.

## EXCHANGING FILES ON THE GO

Once you have completed a task, the documentation map is available in your Operations Center Mobile. While driving to your next job, you can already send the map from your mobile phone to your customer.







# SUPER FAST FILLING

## FILLING

PowrSpray™ allows you to fill up to 5,000 litres in less than 5 minutes and still have all the time and clean water you need for adding chemicals and rinsing containers.

Filling with PowrSpray™ is simple, fast and convenient. Just type the amount of liquid you'd like to add into the Solution Command Keypad and press Start. The dedicated filling pump immediately starts to fill at up to 1,200 l/min. When you want to add plant protection and nutrient products, Active Pause is engaged – filling of the solution tank is paused to give you all the time you need to add plant protection and nutrient products. Clean water is still available, as the filling pump continues to supply all you need for dissolving products and rinsing containers and measuring equipment. When you're finished adding plant protection and nutrient products you can rapidly top up the tank at 1,200 l/min.



## AUTOMATIC CLEAN WATER TANK FILLING

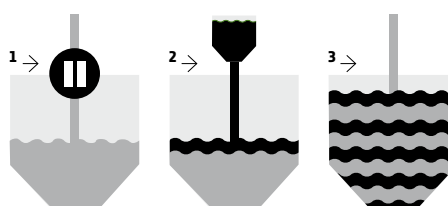
The PowrSpray™ dual-circuit system lets you fill the clean water tank at any time during the filling process – you'll eliminate a major bottleneck and get back into the field faster.





The PowrFill chemical eductor is fast and easy to use. Rinsing jets dilute the plant protection and nutrient products and clean the eductor after use. All product passes through the tank lid filter basket before reaching the solution tank, preventing accidentally sucked-in debris from entering the tank (e.g. can seals or leaves).

2



1. Fill half with water
2. Add chemicals
3. Fill the rest of the tank

## ACTIVE PAUSE

With Active Pause tank filling pauses, but clean water is still available at the eductor. Plant protection and nutrient products can be filled and containers rinsed without the race against the filling tank common in conventional sprayers. After plant protection and nutrient products have been added, final liquid is added at high speed.

## BIG ON SAFETY

With our easy connection to any closed transfer system you avoid almost any contact with crop protection products. It allows you to fill and rinse by plugging directly into the container with an adapter that is widely used by crop protection manufacturers.





## BOOMGUARD

Booms are particularly vulnerable to stress and wear during fast on-road transport. BoomGuard keeps vibration to a minimum, however rough the ride. Rollers support the boom to allow boom movement during transport, and pressurised accumulators in the boom lift ensure a smooth boom ride.



## QUADCONTROL TRANSMISSION

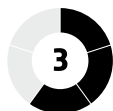
Set your preferred speed and return to it with just a push of the hydro handle. Simple and convenient. In difficult conditions, wheel slip is controlled at each individual wheel for maximum performance.



## XTRAFLEX WHEEL AIR SUSPENSION

The pneumatic, self-levelling XtraFlex independent wheel suspension has 200 mm of vertical travel for a smooth comfortable ride, whatever the conditions.





Move faster. Cut down on unproductive travel time with speeds of up to 50 km/h where laws permit.

## FAST, SAFE AND INCREDIBLY SMOOTH

### TRANSPORT

Even fully loaded, the R41 series are impressive transport performers. With cruise control and smooth pneumatic individual wheel suspension, they are both comfortable and productive.



### POWER AGITATION

Need to incorporate difficult-to-mix plant protection and nutrient products? Power Agitation uses the full spray pump output to stir up the solution tank contents.





# MORE CAB, MORE ABOUT YOU

## CAB

It feels better in here. Cradled inside the wheelbase, the comfortable stress-free ride of the new cab keeps you productive and focused – well isolated from terrain by the XtraFlex wheel suspension and a supportive air-cushioned seat, the pressurized Category IV cab seals you in against dust, aerosols and vapours while powerful air filtration has you breathing healthy.

Then there's the view: totally unobstructed sightlines to keep you on track with relaxed precision.

## NIGHT IS DAY

Powerful LED lighting allows you to stay productive well into the evening hours.



## BREATHE, IT'S SAFE

Your health is a priority in the cab. Pressurization and a filter keep dust, aerosols and vapours outside and give you the clean air quality you are entitled to in this Category IV cab.







## YOUR CAB, YOUR PRIORITIES

Pay only for what's important to you.  
There are two packages available for the cab.

### **DELUXE:**

- Fabric seat
- Optional radio or Bluetooth radio
- Halogen work lights

### **PREMIUM:**

- Heated/vented leather seat
- Optional Bluetooth radio w/subwoofer
- LED work lights





Doesn't do your job for you,  
but it's close: the next-level  
ergonomics of the multi-function  
handle and the CommandARM™

## COMMANDARM™ AND COMMANDCENTER™

Function monitoring and control just took a big leap forward: the integrated John Deere 4640 Universal display puts all relevant information right in front of you, easy to read, logically presented. You just reach out and do what has to happen next.



# JUST THINK IT

## CONTROLS

Because the doing part comes naturally with controls that are a seamless extension of you: integrated 4640 Universal display, a revamped CommandARM™ and the multi-function handle.

### NEW MULTIFUNCTION HANDLE

Actually, it's more like an extra arm or two, that's how much is possible here. With fluid ease, you control forward/reverse speeds and the park brake in a responsive push or pull. Then intuitively execute an array of other functions with buttons right at your fingertips, some even with dual functions accessible in conjunction with the foot switch.



- 1 | Speed
- 2 | Boom roll control\*
- 3 | Boom levelling\*
- 4 | Spray Master on/off with LED indicator showing status\*
- 5 | AutoTrac™ engagement
- 6 | Automatic boom height engagement\*
- 7 | Boom height control\*
- 8 | Variable boom geometry\*
- 9 | Boom sections\*
- 10 | All sections resume\*
- 11 | Solution pump off\*

\*If a 40i or 50i sprayer is installed

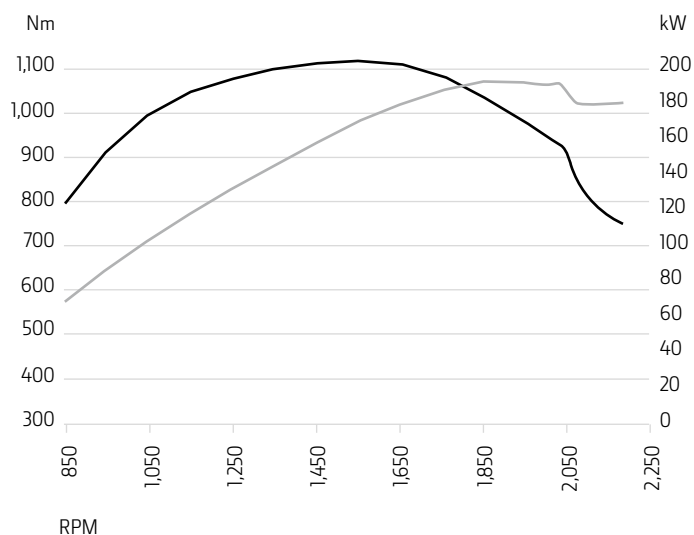
# POWER WITH A HEAD FOR BUSINESS

## ENGINE

Our PowerTech™ PVS 6.8 l 6 cyl. engine is well known for delivering steady powerful performance with less fuel and lower emissions. It's also fully Stage V compliant.



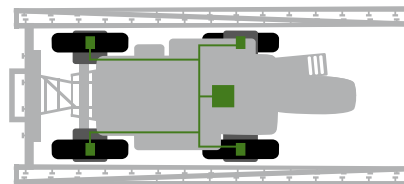
Its refined 4-valve High Pressure Common Rail technology is assisted by a Variable Geometry Turbocharger that boosts performance and efficiency across the torque curve.



Wide, constant power band maintains increased engine performance at lower rpm, saving fuel without sacrificing performance.

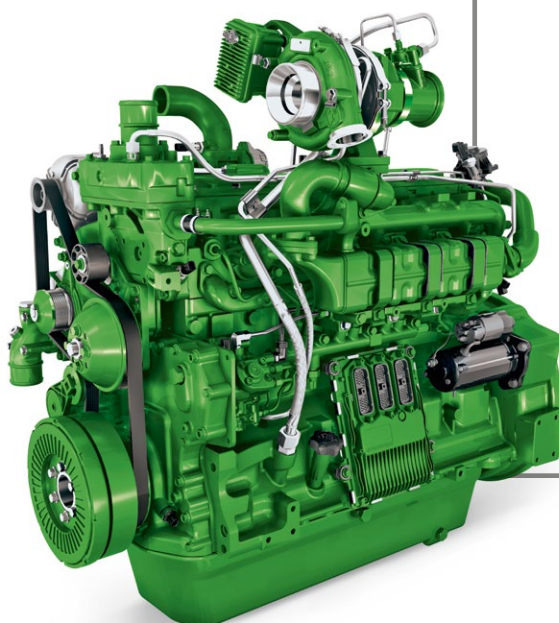
■ Power  
■ Torque





## QUADCONTROL TRANSMISSION

The QuadControl variable speed hydrostatic transmission provides an infinite range of speeds. A single hydrostatic pump actuates four variable wheel motors which drive their respective wheels through a heavy-duty planetary final drive hub to provide full pulling power at the wheels.



## QUALITY FIRST

The John Deere PowerTech™ PVS 6.8 I engine is specifically designed for agricultural applications. Like other core components of the R41 series, we build it ourselves, in accordance with our own stringent quality standards.



## BOOM STABILITY: IT'S PRODUCTIVITY

### BOOMS

The 40i & 50i sprayers are available with steel booms or lightweight, strong and highly durable carbon\* fibre booms. Both deliver the mechanical stability that is the foundation of the steadfast precision with which these sprayers achieve optimal spray distribution – making every drop count for maximum productivity.







## CARBON\* FIBRE BOOMS

The John Deere carbon fibre boom was jointly developed with King Agro – a racing yacht carbon fibre specialist. Non-corrosive and able to flex without damaging stresses, the booms are highly durable and allows spraying speeds of up to 30 km/h. Carbon fibre's low-inertia delivers improved boom ride and more precise boom control for better spray coverage with less spray drift. Difficult to damage, but easy to fix, these booms are easy to repair on farm, without special tools.

If you're looking for the very best in boom stability and durability performance – it's made of carbon fibre:

- 6x stronger / 5.5x lighter than steel
- Resistant to fatigue stresses
- Not affected by chemicals or liquid fertilisers
- Improved boom control and spray accuracy
- Increased operating speed – up to 30 km/h
- Reduced ground pressure and soil compaction
- Easy repair on farm without special tools

**Tough steel** – The rugged spray boom features long-lasting ball and socket bearings at the fold points. Nozzles and stainless steel spraylines are protected against damage.

\*Carbon fibre booms are not available in the UK.

# A NEW GENERATION OF APPLICATION

## CARBON\* BOOMS

Nothing comes close to the stability or durability of John Deere's new Carbon Fibre booms. Lighter and more durable than either steel or aluminium, this is a new generation of application technology.



### EASY REPAIR ON THE FARM

Light but amazingly strong, the Carbon Fibre structure is able to withstand considerable impacts. If repairs are needed, a kit is available to get you up and running quickly, without the need to visit the dealer workshop.

The repair kit includes everything you need for fast and easy repairs that last.

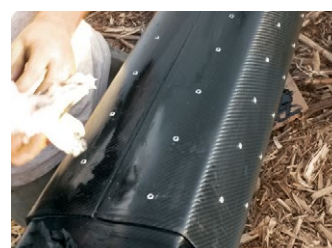




Even completely severed carbon boom sections can be repaired. Repairs that would normally necessitate a brand new steel or aluminium boom are easily performed.



New Carbon Fibre sections, supplied in the repair kit, are cut to the profile of the damaged boom section.



With the new carbon layers glued and riveted in place, the repaired boom is again ready for duty in the field.

\*Carbon fibre booms are not available in the UK.



# ULTRASONIC PRECISION

## APPLICATION

TerrainControl Pro, TerrainCommand Pro and Active Centre Frame Control complement the already exemplary mechanical boom stability of the 40i & 50i sprayers. You now get fully automated boom height and roll control on the most solid and accurate application platform you have ever experienced.

## ABSOLUTE PRECISION

No misses, no drifting, just consistent coverage – automatically. With TerrainControl Pro and TerrainCommand Pro the boom is always where it needs to be for optimum coverage. Purpose-designed Hybrid-mode sensors simultaneously track both soil and crop, learning the crop height to prevent lowering into areas of down crop. Active Centre Frame control eliminates unwanted movement and prevents boom leaning during headland turns.



Three to five ultrasonic sensors with IMU's help position the spray boom correctly at all times – maintaining constant application heights, for less drift, higher speeds and reduced operator stress.

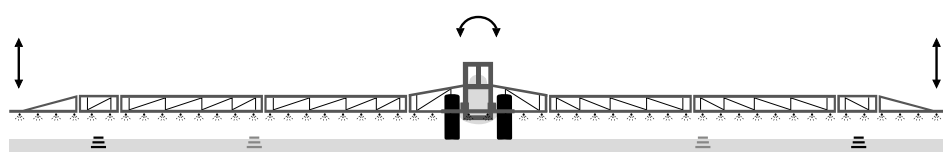




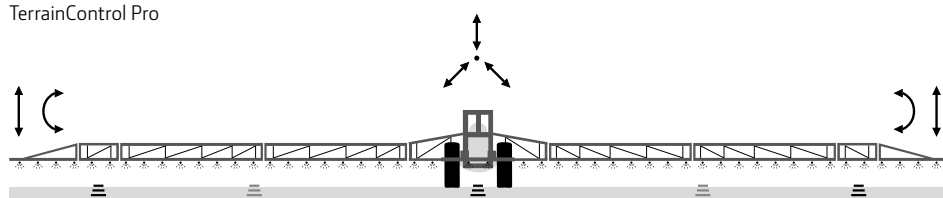


## PERFECT BOOM ALIGNMENT

≡ Ultrasonic sensor  
with IMU (Inertia  
Measurement Unit)



TerrainControl Pro



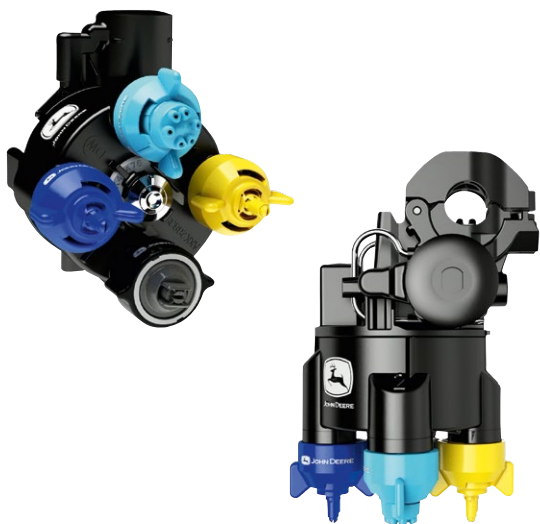
TerrainCommand Pro

TerrainControl Pro features Active Centre Frame Control for maximum precision: Ultrasonic and IMU sensors (Inertia Measurement Unit) measure the complete boom centre frame roll movement, the changes in the roll movements and the speed changes in the roll movements. The standard boom roll (tilt) cylinder then compensates for any boom roll detected to eliminate the effects of chassis roll on nozzle height above the crop and the transfer of movement between opposite sides of the boom. TerrainCommand Pro adds to this automatic control of the boom variable geometry, independently on either side.

# NOZZLE CONTROL (R)EVOLUTION

EXACTAPPLY™

We never stop improving. ExactApply™ nozzle control is more accurate, lowers input costs and increases your yield potential.

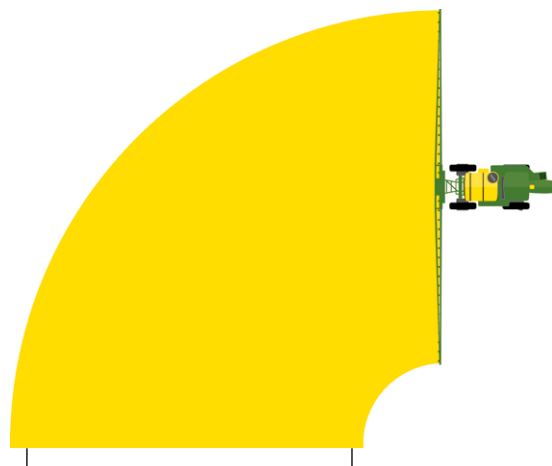


## INDIVIDUAL NOZZLE CONTROL

ExactApply™ is a big step forward in nozzle control systems: from simple section control to individual nozzle control with much more precise application management. Cover more of your crop with better precision, maintaining your target rate and pressure over an unprecedented range of speeds, while you decrease overlap, reduce input costs. Exact, as in specific: In conjunction with Turn Compensation, ExactApply™ automatically varies the rate across the entire boom for the correct application rate in a specific area.



## TURN RATE COMPENSATION



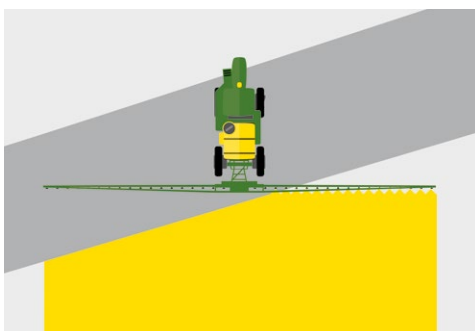
Homogeneous rate



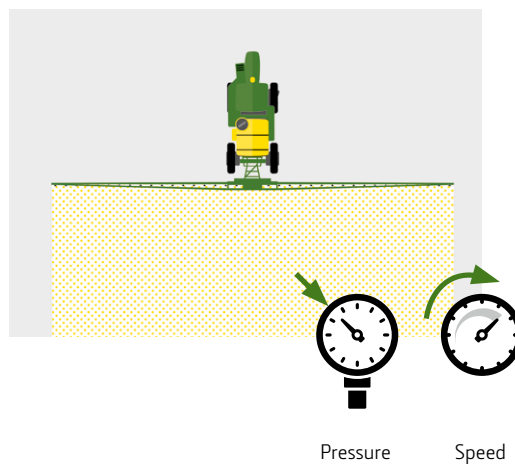


ExactApply™ not only reduces your input cost, but also saves your plants from over-application crop burn and prevents escapes due to under-application.

#### INDIVIDUAL NOZZLE CONTROL



#### HIGH FREQUENCY PULSING



# THE SHAPE OF PRECISION

## NOZZLES

Together with our nozzle partner Hypro, we have built an extensive range of nozzles that has you covered no matter what you're going to apply.



Our nozzle brochure provides additional information: ask your dealer for your copy of "The key to successful spraying".

### CHOOSE THE RIGHT NOZZLE

A key factor for efficient application is the right nozzle choice for the application rate, crop and product you're working with. Performance parameters like drift reduction, degree of coverage as well as size of the drops in relation to angles play an important role.

### HEAVIER DROPLETS, FOR LESS DRIFT

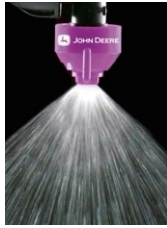
Significantly reducing drift without any sacrifices in coverage is the domain of air induction nozzles. Their larger, heavier drift-resistant droplets have an air pocket inside. On impact, the droplets burst and deposit the liquid on the target. Our ULD, LDA and GAT models are air induction nozzles.



## FOCUS NOZZLES



**STRAIGHT  
STREAM  
CERAMIC (STC)**



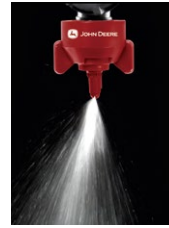
**ULTRA  
LOW-DRIFT  
(ULD) 120°**



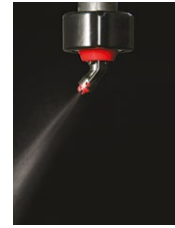
**EXTENDED  
RANGE (ER)  
110°**



**GUARDIANAIR  
TWIN™ (GAT)  
110°**



**LOW-DRIFT AIR  
(LDA) 110°**



**3D 100°**



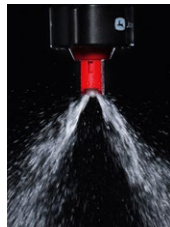
## CERAMIC NOZZLES



**ULTRA-LOW  
DRIFT CERAMIC  
(ULDC) 120°**



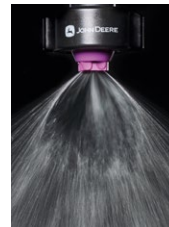
**LOW-DRIFT  
AIR CERAMIC  
(LDAC) 120°**



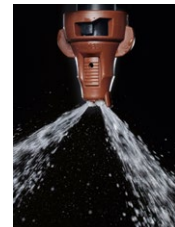
**GUARDIANAIR  
TWIN™  
CERAMIC  
(GATC) 120°**



**LOW-DRIFT  
CERAMIC (LDC)  
90° & 120°**



**EXTENDED  
RANGE  
CERAMIC (ERC)  
120°**

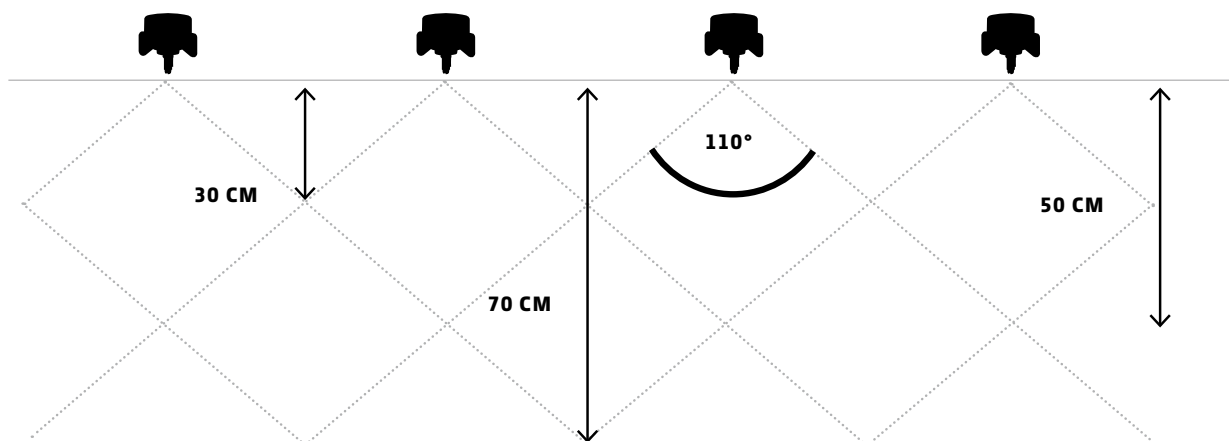


**ASYMMETRIC  
ULTRA LOW  
DRIFT CERAMIC  
(AULDC) 120°**



Liquid fertiliser
 Herbicides
 Plant growth regulators
 Fungicides
 Insecticides

Choose a standard angle of 110°  
at a boom height of 50 cm.





# SAFE AND FAST

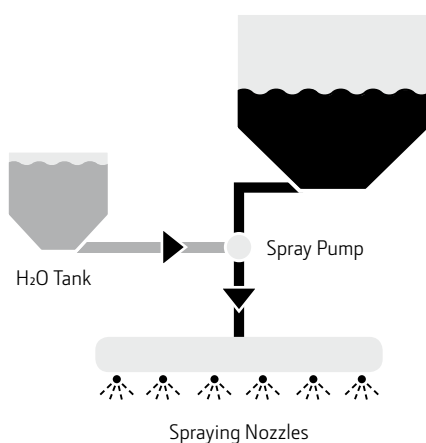
## CLEANING

Rinsing and dilution are easy with the 40i & 50i sprayers. Multiple rinsing modes, including AutoDilute, System Rinse, Rinse Cycles, Boom Rinse and AirRinse™ are enabled at the push of an in-cab button. The PowrSpray™ solution system, with 45% less residual volume than conventional sprayers, guarantees efficient use of your on-board rinse water. Simple and safe.



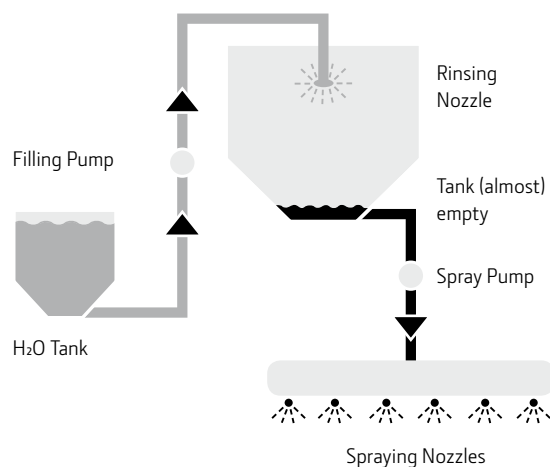
Thorough: the 40i & 50i sprayers feature rinsing modes and multiple rinsing options.

Boom Rinse



Activate Boom Rinse at the push of an in-cab button to reduce residual volume and ensure efficient use of on-board rinse water.

AutoDilute



AutoDilute – The AutoDilute Rinse Calculator works out how many rinse cycles are needed to meet your dilution requirements. Once done, multiple automatic dilute-rinse-spray cycles lower the concentration of the residual liquid. It's foolproof, and gives you absolute peace of mind.





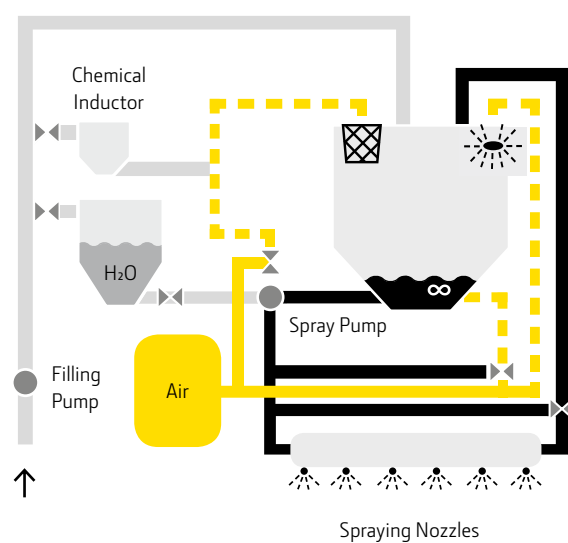
## AIRRINSE™

Thanks to PowrSpray™ the 40i & 50i sprayers have a very low residual volume, around 45%\* less than average comparable sprayers. AirRinse™ benefits from all the air components already available on the machine to decrease even beyond the residual volume, and clean the tank contents just as efficiently as with clean water.

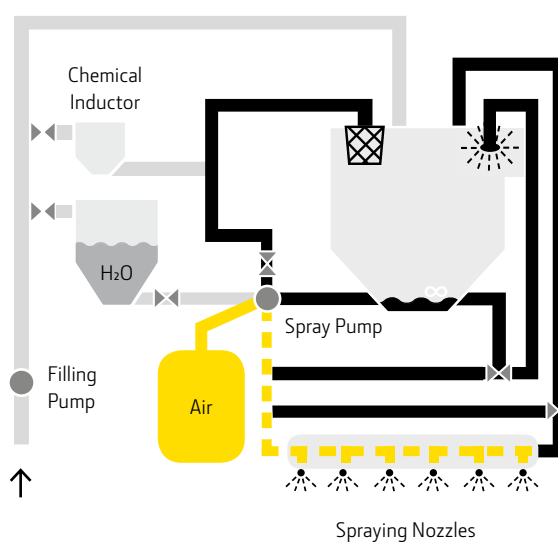
AirRinse™ offers 2 automated modes:

- Field mode: liquid is sprayed out by purged air (Residual volume 30 litres)
- Farm mode: liquid is collected into the tank by purged air to then be drained (residual volume 5 litres)

AirRinse™ – Field Mode



The automatic pressurised air purge works in two steps.  
Step 1: Pressurised air pushes residual liquid from the eductor and rinse lines into the solution tank.



Step 2: Pressurised air pushes residual liquid from spraylines through the nozzles (after the pump has stopped).

\*Based on R41 series with 50i sprayer and 36 m carbon fiber boom

# MAKE THE MOST OF YOUR DAY

AUTOTRAC™



AutoTrac™ hands-free steering adds more comfort: It reliably steers your R41 series or your R41 series with 40i & 50i sprayers from day to night, through dust or on hilly terrain. This prevents costly overlaps or gaps and enables every operator to run at peak performance. With the Generation 4 4640 Universal display and a StarFire™ 6000 receiver, all you need is a Gen 4 4640 Universal Premium Activation and you're ready to start, including Section Control. Using AutoTrac™ you can expect up to 8\* percent input savings and up to 14\*\* percent productivity increase.

## **GUIDANCE WITHOUT GUIDANCE LINES – AUTOTRAC™ VISION**

Traditional guidance systems are a great help – but they require guidance lines. AutoTrac™ Vision uses a front-mounted camera to see non-seeded tramlines or early-season corn, and keeps vehicle wheels on track to reduce yield robbing crop damage. Even after a long day of high-speed application you leave the cab relaxed and fresh, because the camera did the steering job for you.



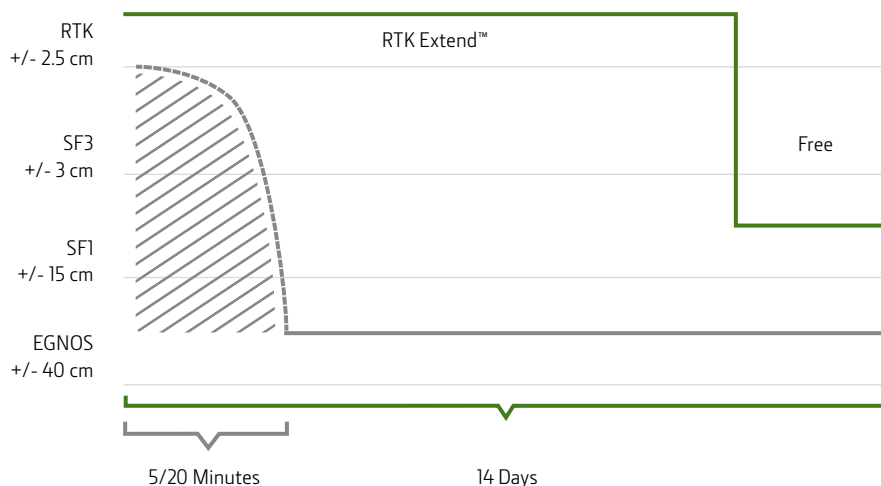
\*From 'Lohnunternehmen' 1/2010

\*\*From 'Landtechnik' 6/2006





## SIGNAL STABILITY WITH IMPROVED RTK EXTEND™



## IMPROVED SF1 SIGNAL

The best entry-level signal just got even better and now features +/- 15 cm pass-to-pass accuracy, multiple StarFire™ Tracking, and the Terrain Compensation Module (TCM) – all without licence fees, and with GLONASS in base. It's the perfect starting point for tillage, grassland applications and harvesting.

### **+/- 3 CM ACCURACY: SF3 SIGNAL**

Higher accuracy that's ideal for seeding and planting. No more waiting around for full accuracy. In less than 30 minutes, the new SF3 signal delivers stunning +/- 3 cm pass-to-pass accuracy – that's up to 4 times faster than you can get with SF2. Add to that 9 months of in-season repeatability, flexible licence periods and easy upgradeability, and those €56 per month make a whole lot of business sense.

### **+/-2.5 CM REPEATABLE PASS-TO-PASS ACCURACY: RTK**

For precision farming, RTK is your best solution for accuracy, repeatability and pull-in time, and eliminates Global Navigation Satellite System drift. With RTK you only need to record field boundaries once. If you need this repeatability for e.g. Section Control you will not want to come back and record boundaries every year. You will save time every day: full RTK accuracy is always available from the very start. It takes less than one minute!



## CONNECTED FARM MANAGEMENT

When you buy a John Deere sprayer you get access to a wide range of tools that provide exact machine performance data that will help you to optimise your business.





The Operations Center on our ag web portal [OperationsCenter.deere.com](http://OperationsCenter.deere.com) makes it simple. It connects you to your machines, your operators and your fields from one central location. It also allows you to exchange information seamlessly with your John Deere dealer, your contractor or other trusted partners.



### **AUTOTRAC™. NOW CONNECTED.**

Connect AutoTrac™ to the John Deere Operations Center and conveniently plan your jobs during off-season to make sure that everything goes smoothly during peak season. You can easily create, edit or delete display set-up data like clients, farms and fields, boundaries, guidance lines or machine and implement off-sets in your personal Operations Center account.





## SERVICES THAT BENEFIT YOU

### FARMSIGHT™ SERVICES

With a FarmSight™ Services package, you can rely on your R4i series every second of the season and profit from efficiency gains and additional uptime hours from day one.

The R4i series with 40i & 50i sprayers come with a JDLink™ telematics terminal and JDLink™ connectivity as standard, so you can access several cutting-edge digital remote tools which allow your dealer to provide you with a suite of proactive services tailored to your needs. Talk to your John Deere dealer about which FarmSight™ Services package works for you.

### FARMSIGHT™ SERVICES PACKAGES

VALUE	FARMSIGHT™ SERVICES		SELECT	PREMIUM
🎓 Training	1	John Deere Operations Center Introduction	■	■
🎓 Training	2	Machine Handover Training	■	■
🔧 Performance	3	Set-Up Support / Optimisation Visit	■	■
📞 Uptime	4	Seasonal Phone Support	■	■
📞 Uptime	5	Expert Check and winterisation	■	■
📞 Uptime	6	De-winterisation and software update	■	■
🔧 Performance	7	Official sprayer test	■	■
🎓 Training	8	Documentation and OperationsCenter.Deere.com Account Set-up	–	■



## EXPERT CHECK AND WINTERISATION

You get a thorough off-season inspection for maximum in-season uptime. The detailed technical examination focuses on proper winterisation to protect your sprayer from frost.



### 1 | JOHN DEERE OPERATIONS CENTER INTRODUCTION

A new way to reduce office work and manage your business with ease. Includes a one-hour training session at your dealership.

### 2 | MACHINE HANDOVER TRAINING

In the first year, you'll receive individual operator training at the dealership. It highlights the key productivity features of your sprayer and explains how you use them to optimise your operations. In the following years, you can choose a refresher training or other offerings from the dealer training catalogue.

### 3 | SET-UP SUPPORT / OPTIMISATION VISIT

In a one-hour visit, our specialist will perform a thorough hands-on examination of your machine in the field for optimisation. We'll also ensure that all installed technology such as Section Control and applications control is fully utilised.

### 4 | SEASONAL PHONE SUPPORT

You'll have questions and you'll face a variety of challenges during the normal course of operations. We're just a phone call away, and will help you during regular office hours to resolve the issues or questions that are holding you back from achieving optimal productivity.

### 5 | EXPERT CHECK AND WINTERISATION

The Expert Check is a thorough inspection of your sprayer by an experienced certified service technician out at your farm. Using a unique John Deere inspection checklist, they'll produce a comprehensive technical diagnosis of your machine's health and advise you on what measures to take to ensure maximum uptime in the next season. As part of the winterisation the sprayer will be cleaned, drained and filled with antifreeze.

### 6 | DE-WINTERISATION AND SOFTWARE UPDATE

Prepares your sprayer for the season, including the latest software, to make sure that your machine's all set to deliver top performance.

### 7 | OFFICIAL SPRAYER TEST

Let us make sure your sprayer fulfills the EN ISO 16122 requirements and meets national regulations such as NSTS, SKL and JKI.

### 8 | DOCUMENTATION AND OPERATIONS CENTER.DEERE.COM ACCOUNT SUPPORT

Individual training from our expert. In the first year, we'll go over the initial documentation system set-up and give you an individual one-hour systems training session at your location. You'll benefit from shorter data entry times and more accurate documentation as a result of this training. In the following years, you can choose between a similar session at your location or remote support via phone.



# POWERGARD™

STATUS: PROTECTED



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

PowerGard™ agreements protect you against unexpected repair costs and keep your maintenance on track with genuine parts. Three fixed rate packages provide increasingly comprehensive levels of cover to keep your machine running at peak performance with steady uptime.

## POWERGARD™ MAINTENANCE

Preventative maintenance work – it's essential for keeping equipment in good working order based on factory recommended intervals.\*\*

## POWERGARD™ PROTECTION

Base level of protection that covers unusual events that can lead to costly repairs, and also covers the main drive train components.

## POWERGARD™ PROTECTION PLUS

The ultimate in protection – the total peace of mind package that covers all components included in PowerGard™ Protection, plus electrical, cooling, hydraulics and more.

## FINANCING

Include your PowerGard™ Protection agreements into your financing offer and benefit from competitive rates, with flexible payments.\*\*

\*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.



## SPECIFICATIONS



MODEL	R41 TRACTOR-TYPE CARRIER
<b>ENGINE</b>	
John Deere PowerTech™ PVS engine (Stage V compliant)	Base
Horsepower	179 kW / 240 hp
Power bulge	190 kW / 255 hp
Engine rated speed (field/road)	1,900-2,200 rpm / 1,900 rpm
Number of cylinders	6
Displacement	6.8 l
Automatic engine regenerating process	Base
Main power switch, including ON/OFF indication	Base
<b>FUEL SYSTEM</b>	
Fuel tank capacity	290 l
Diesel Exhaust Fluid (DEF) tank capacity	20 l
<b>DRIVETRAIN</b>	
Hydrostatic permanent 4 wheel drive	Base
QuadControl transmission 40 km/h: four hydraulic wheel motors (60 cc) with planetary gear hubs	Base
QuadControl HD transmission 40 km/h: four hydraulic wheel motors (80 cc) with planetary gear hubs	Option
QuadControl transmission 50 km/h*: four hydraulic wheel motors (80 cc) with planetary gear hubs	Option
*depending on countries	
Vmax transport mode (depending on drivetrain option, refer to local legislation)	0-40/50 km/h
Cruise control with stepless selection of target speed on joystick and antistall function	Base
Independent wheel slip control	Base (in combination with StarFire™ receiver)
Wheel motor shields	Base
Crop protection belly shields	Base
Backup alarm with acoustic warning signal	Base
<b>OPERATOR STATION</b>	
20 l hand wash tank	Base
Storage compartment, sealed and lockable	Base
Error free soft touch control panel & display	Base
<b>HYDRAULIC SYSTEM (AUXILIARY FUNCTIONS)</b>	
Closed centre, pressure and flow compensated system for auxiliary functions	Base
<b>STEERING</b>	
Automatic steering mode switching (selectable) controlled by buttons on armrest, floor pedal or HMS™ (Headland Management System)	Base
4 wheel coordinated	Base
4 wheel crab steer	Base
2 wheel for field operation	Base
2 wheel with transport lock	Base
Automatic rear wheel centering when switching to 2 wheel steering mode	Base
Turning radius (depending on tyre size and tread setting)	4.5 m
<b>TIRE SIZES</b>	
VF380/90R46*	Base
*contact your dealer for additional information	
(VF)480/80R46*	Option
*contact your dealer for additional information	
(VF)520/85R42*	Option
*contact your dealer for additional information	
620/70R38*	Option
*contact your dealer for additional information	
<b>SUSPENSION</b>	
XtraFlex Individual dual strut air spring suspension, automatic pressure adjustment, incl. deflate switch	Base
Travel distance	+10 cm / -10 cm
<b>TREAD ADJUSTMENT</b>	
Range of adjustment	0.70 m from 1.87 up to 2.88 m (depending on tire size and drive train)
Manual tread adjustment	Base
Hydraulic tread adjustment	Option



## SPECIFICATIONS

MODEL		R41 TRACTOR-TYPE CARRIER
<b>CAB</b>		
Deluxe cab		Base
Cloth adjustable air suspended seat with large back support and seat belt		
Standard instructor seat with seat belt		
Standard radio		
Rear view mirrors (RHS remote control)		
Halogen working lights		
Premium cab		Option
Leather adjustable air suspended heated/ventilated seat with large back support and seat belt		
Premium instructor seat with seat belt		
Bluetooth radio with 6 extra speakers and subwoofer		
Rear view mirrors (RHS and LHS remote control)		
LED working lights		
Leather steering wheel		Base
Dual tilt and adjustable narrow steering column		Base
CommandARM™ with Joystick: implement and tractor-type carrier functions		Base
John Deere Gen 4 4640 universal display armrest mounted		Base
AutoTrac™ ready (without AutoTrac™ activation)		Base
John Deere Section Control ready (without activation)		Base
PDU corner post display, indicates speed, engine rpm, fluids level, etc.		Base
Pressurized cab, heating and air conditioning and active carbon filtration Category 4 (EN 15695-1:2009, refer to local legislation)		Base
Remote control of ladder with automatic lift (driving) and lowering with parking brake ON		Base
JDLink™ (telematics), RDA and WDT ready (subscription needed)		Base
5 USB ports		Base
Smoker package in cab		Option
Field office in cab		Option
Beacon light(s)		Option
<b>DIMENSIONS</b>		
Total length (with 40i/50i sprayer installed*)		7.65 m (9.10 m)
*Longest dimension is the boom		
Max. transport width (with 40i/50i sprayer installed)		2.55 m (3.00 m)
Max. transport height (with 520/85R42 tires, beacon light removed)		3.95 m
Ground clearance (with 520/85R42 tyres)		1.00 m
Empty weight** (with 40i/50i sprayer installed including 5,000 litre water in main tank and 400 litre water in rinse tank)		11,315 to 12,015 kg (11,065 to 12,765 kg)
**R41 tractor-type carrier only ballasted		
Weight balance in transport mode (with 40i/50i sprayer installed including 5,000 litre water in main tank and 400 litre water in rinse water tank):		
Front axle		53% (46%)
Rear axle		47% (54%)
Weight balance in application mode boom unfolded 80 cm height with 40i/50i sprayer installed including 5,000 litre water in main tank and 400 liter water in rinse tank:		
Front axle		42%
Rear axle		58%





MODEL	40i SPRAYER	50i SPRAYER
<b>APPLICATION SYSTEM</b>		
Polyethylene tank with hinged tank lid 400 mm and basket strainer	Base	Base
Solution tank capacity (nominal volume)	4,000 l	5,000 l
Solution tank capacity (actual volume)	4,200 l	5,250 l
3" solution tank filling position at operator station	Base	Base
Dry solution tank level indicator	Base	Base
Digital solution tank level sensor with accurate tank level indication on cab and operator station	Base	Base
Agitation system with 5 hydro-injectors	Base	Base
Agitation ON/OFF control (manual and automatic based on tank level), automatic agitation intensity & power agitation	Base	Base
400 l rinse water tank with digital level indicator	Base	Base
Rinse water tank top fill position	Base	Base
3" rinse water tank filling position at operator station	Base	Base
20 l hand wash tank at operator station	Base	Base
30 mesh filling filter & 50 mesh pressure filter with drain taps	Base	Base
PowrFill 50 l chemical inductor hopper with jug rinse nozzle and spray gun	Base	Base
Clothing locker	Base	Base
Liquid transfer valve (without coupling)	Base	Base
Calibration container 2 l	Base	Base
<b>APPLICATION PUMPS</b>		
PowrSpray™ system with centrifugal application pump (1,000 l/min @ 3 Bar)	Base	Base
and centrifugal fast fill pump (1,200 l/min)	Base	Base
Automatic tank fill stop to prevent overloading	Base	Base
AutoDilute system to prevent crop damage or environmental pollution while diluting	Base	Base
<b>APPLICATION CONTROL SYSTEM</b>		
Solution Command System, error free soft touch control panel & display for automatic filling, application and rinsing	Base	Base
John Deere automatic rate control system with pressure & flow based regulation	Base	Base
Direct rate control adjustment through pump speed: fast adjustment of application rate and agitation intensity	Base	Base
<b>BOOM CONTROL</b>		
Electro hydraulic height control with nitrogen accumulator, height range 50-250 cm	Base	Base
Electro hydraulic boom tilt with automatic center function	Base	Base
Electro hydraulic variable geometry with nitrogen accumulators	Base	Base
Boom return to height function	Base	Base
John Deere TerrainControl™ Pro (2 sensors)	Option	Option
John Deere TerrainControl™ Pro (4 sensors)	Option	Option
John Deere TerrainCommand™ Pro (3 sensors)	Option	Option
John Deere TerrainCommand™ Pro (5 sensors)	Option	Option
<b>BOOM</b>		
Double fold, three dimensional high strength steel booms	Base	Base
Double fold, three dimensional high tensile strength carbon fibre booms	Option	Option
Folding modes: AutoFast fold, Auto Sequential, individual segments in maintenance mode	Base	Base
Folding cylinders with end-stroke dampening	Base	Base
Ball and socket bearings in swivel points with grease points	Base	Base
Stainless steel application lines with quick-connect couplings	Base	Base
Bi-directional boom breakaway protection	Base	Base
Parallelogram, hydraulic height adjustment with a nitrogen pressure accumulator suspension and transport lock	Base	Base
Centre frame with vertical and horizontal boom suspension and pendulum lock (anti yaw)	Base	Base
5-way nozzle bodies with bayonet couplings for nozzle caps, protected within boom construction	Base	Base
ExactApply™ nozzle bodies with bayonet couplings for nozzle caps, protected within boom construction	Option	Option
Extremity nozzle (LHS/RHS), includes both edge and off-center nozzle functionalities	Option	Option
Pressure Recirculation System with pneumatic nozzle shut-off	Base	Base
Full pressurized liquid circulation through application lines including liquid supply from both directions in application mode	Base	Base
Pre-programmable liquid recirculation pressure	Base	Base
<b>BOOM LAYOUT</b>		
24/12 m (8 sections: 3-3-3-3-3-3-3-3)	Base	Base
27/15 m (9 sections: 3-3-3-3-3-3-3-3-3)	Option	Option
28/15 m (8 sections: 3-4-4-3-3-4-4-3)	Option	Option
30/15 m (9 sections: 3-4-5-3-3-3-3-4-5-3)	Option	Option
32/18 m (8 sections: 4-4-4-4-4-4-4-4)	Option	Option
33/18 m (11 sections: 3-3-3-3-3-3-3-3-3-3-3)	Option	Option
36/18 m (9 sections: 4-4-4-4-4-4-4-4-4)	Option	Option
36/18 m (12 sections: 3-3-3-3-3-3-3-3-3-3-3-3)	Option	Option
36/24/18 m (12 sections: 3-3-3-3-3-3-3-3-3-3-3-3)	Option	-
36/18 m carbon fibre (9 sections: 4-4-4-4-4-4-4-4-4)	Option	Option
36/18 m carbon fibre (12 sections: 3-3-3-3-3-3-3-3-3-3-3-3)	Option	Option
<b>APPLICATION SPEED</b>		
Vmax application mode (with steel booms)	0-25 km/h	0-25 km/h
Vmax application mode (with carbon fibre booms)	0-30 km/h	0-30 km/h
<b>ACCESSORIES</b>		
3" 9 meter filling hose	Option	Option
Brush with hose reel	Option	Option
Onboard high pressure washer (100 bar) with self retractable hose reel	Option	Option
Mud flaps at front & rear fenders	Option	Option
Rear view camera with automatic triggers	Option	Option
<b>DIMENSIONS</b>		
Max. total length when installed on R41	9.10 m	9.10 m
Max. width (transport)	3.00 m	3.00 m
Max. height (transport when installed on R41)	2.4 m (3.95 m)	2.6 m (3.95 m)
Empty weight	3,050 to 4,000 kg	3,100 to 4,050 kg



# NOTHING RUNS LIKE A DEERE™

Chances are that when you need us, you need us right there and then. 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. 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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