M700i Trailed Sprayers

M724i, M732i and M740i





Concentrated capability: M700i Trailed Sprayers

High performance, maximum uptime and lowest possible operating costs – that's what you should be looking for in your new machinery. And that's exactly what you get with the M700i Trailed Sprayers. Performance levels are high, thanks to spraying accuracy and overall ease of operation. And because it's designed and engineered by John Deere, uptime and reliability are guaranteed. Built-in efficiency also keeps running costs to a minimum.

Whatever the size and nature of your operations, there's a John Deere trailed sprayer with the capacity and capability that's right for you.

Our M700i Trailed Sprayers offer tailor-made solutions that are ideal for cropping plans that range from intensive to less intensive. The broad range of options available makes it easy for you to specify your ideal trailed sprayer.



John Deere Trailed Sprayers





M700i Series

John Deere M700i Trailed Sprayers offer double or triple-fold booms up to 30 m in width. Three tank sizes are available - 2,400, 3,200 and 4,000 litre capacity.

M900i Series (covered by a separate brochure) John Deere M900i Trailed Sprayers features tank sizes up to 6,200 L and boom width availability up to 40 m. Suitable for large arable and mixed farm operations, the base specification can be upgraded to suit your requirements by adding your choice of equipment and Precision Ag solutions.

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A partnership of quality

Together we're better

Every successful partnership is based upon trust and understanding. At John Deere, trust is evident in the legendary quality and reliability of our machinery, the innovative effectiveness of our user-friendly systems and the meticulous support provided by our dealers.

We also understand exactly what you need to achieve and maintain the success of your operations: equipment that is designed and engineered to outperform anything in the paddock, a support network dedicated to maximise operational uptime and proven cost efficiency.

Sharing this unique trust and understanding is what makes us better together.

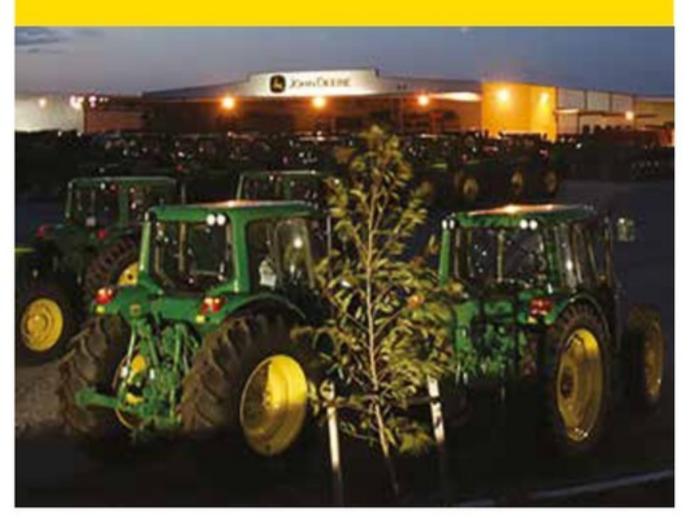
Peerless performance

We define machine performance as much more than just power. It also means precise regulation of crop inputs, the highest possible productivity and a proficiency that has no equal. Our sprayers are designed and manufactured in a purpose-built European facility so the quality of your work is assured by the quality of our machinery.



Maximising uptime

In the paddock or on the road, uptime equals productivity. To keep your operations up and running, we've made it our priority to develop effective new solutions to eliminate machine downtime. Obtaining and fitting our guaranteed genuine parts has never been quicker or simpler. Ask your John Deere dealer – they're already part of our "on call" team.



Minimising operation costs

There's no escaping the truth that skimping on quality can turn out to be expensive in the long term. And the long term is exactly what John Deere machines are built for. The quality for which we are renowned pays real dividends in terms of impressive reliability and durability, lower running costs and a reduced need for maintenance. All of which contribute to higher residual and therefore better resale values.





What goes into your ideal trailed sprayer

The ISOBUS equipped M700i has been built to provide years of reliable, precision spraying. You can, of course, also configure your M700i to include additional systems and equipment so that your sprayer's performance can be matched perfectly to your operation.

- Advanced i-Solutions bring precision and save input costs
- Tractor ISOBUS Socket
- GPS Section Control ready
- BoomTrac™ automation spray boom levelling and height
- AutoDilute cleaning and rinsing
- Unrivalled boom stability and longevity, up to 10 sections
- LED lights for higher night time productivity
- 280 Lpm pump capacity
- 400 L rinse water tank
- John Deere quality and service







Z-bar parallelogram construction provides equal height adjustment speed and rear-side clearance.



BoomTrac system improves spray accuracy and distribution – and reduces drift by automatically controlling boom tilt and height as you work. It's useful on slopes and uneven paddocks, as well as during headland turns.



Section Control cuts input costs by reducing skips or overlaps dramatically. This GPS-based system turns boom sections on and off automatically whenever you leave or enter a predefined area.

Superior stability: the key to spraying proficiency

The lower the centre of gravity, the better the balance. Making the M700i better for stability, manoeuvrability, accuracy and transport, whether the tank is full or empty, on the road and in the paddock. Even on slopes!

The tank sits low in the chassis, cradled within the rugged main frame, giving the M700i a very low centre of gravity. The resulting stability and level weight distribution help keep the machine steady while working, regardless of boom position. The durable chassis design limits frame material fatigue.

- Narrow drawbar design for sharper turning
- Height adjustable tow-eye connection
- Double link axle suspension





All the capacity you need

With three tank sizes available (2,400 L, 3,200 L and 4,000 L nominal volumes), it's simplicity itself to identify the right M700i for your operation.

Manufactured in rugged, durable polyethylene, they're designed for years of trouble-free service. The smooth, rounded shape enables perfect agitation and is easy to keep clean, inside and out. The deep sump and steeply sloping bottom minimise dead volume and make emptying easy even on hillsides. There are no baffles or dead corners to disrupt flow, agitation or solution mixing, dry liquid level indication is standard, with the option of digital readout.



Multi-mode steering

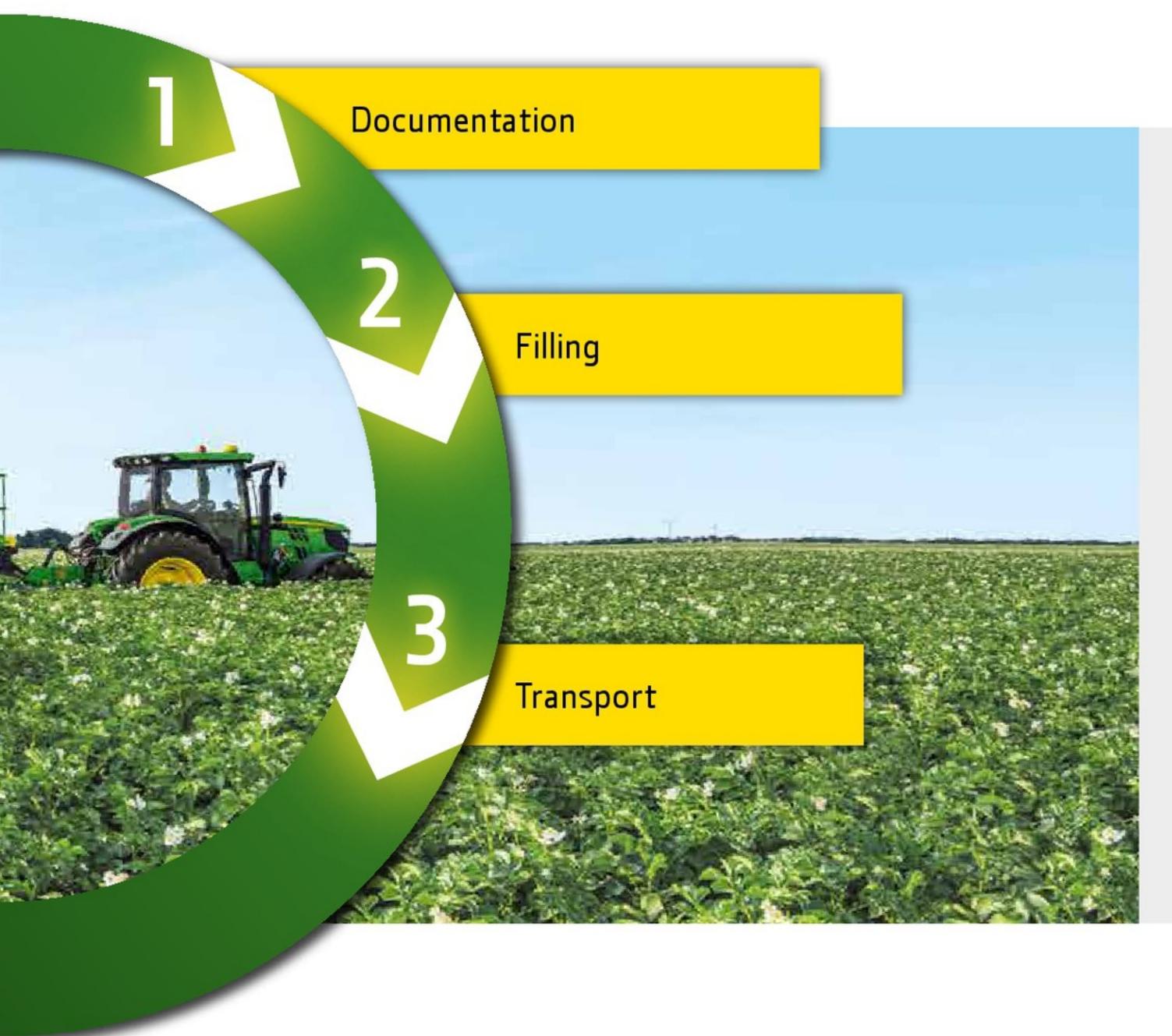
Choose 'manual' when reversing into corners, or 'auto' for consistent track following. Manual mode offers hillside adjustment, while 'HMS' activates the steering when you're not spraying at the headland.

Precision spraying: as simple as 1, 2, 3 ...

When it comes to effective crop protection, timing and technology are almost as important as choosing the right crop protection chemicals.

Every M700i Trailed Sprayer is capable of delivering impressive productivity every step of the way. From planning through filling and transport to spraying, rinsing and dilution, it makes spraying easier, more accurate and more profitable. With the optional GreenStar™ 3 2630 Display documentation is also included.





Keeping your profits on track Choose from a range of John Deere connectivity solutions which enable different degrees of accuracy and productivity enhancement. Your dealer will assist you in specifying the most effective and efficient solutions for your specific requirements.

See page 24 for details.

Documentation: preparation is everything

Equipped with the optional GreenStar™ 3 2630 touch-screen display, your M700i boosts your productivity throughout the entire crop protection cycle – from documentation and filling to transport, spraying and rinsing.

Good documentation provides the solid foundation for your entire operation. With the right data, you can work more productively every season by creating prescription maps that take yields higher still, season after season.



From the simplicity of manual control to the convenience of John Deere i-Solutions, you can specify your M700i according to your operational preferences.

An M700i equipped with the full suite of i-Solutions can help you streamline every aspect of your job planning and data recording. All the information you need on crop protection processes and traceability are collected automatically while you work. You can then exchange them with your Operations Centre.

Once you experience how much time and effort you save on paperwork and planning, you'll wonder how you ever managed without i-Solution productivity. It's your choice.

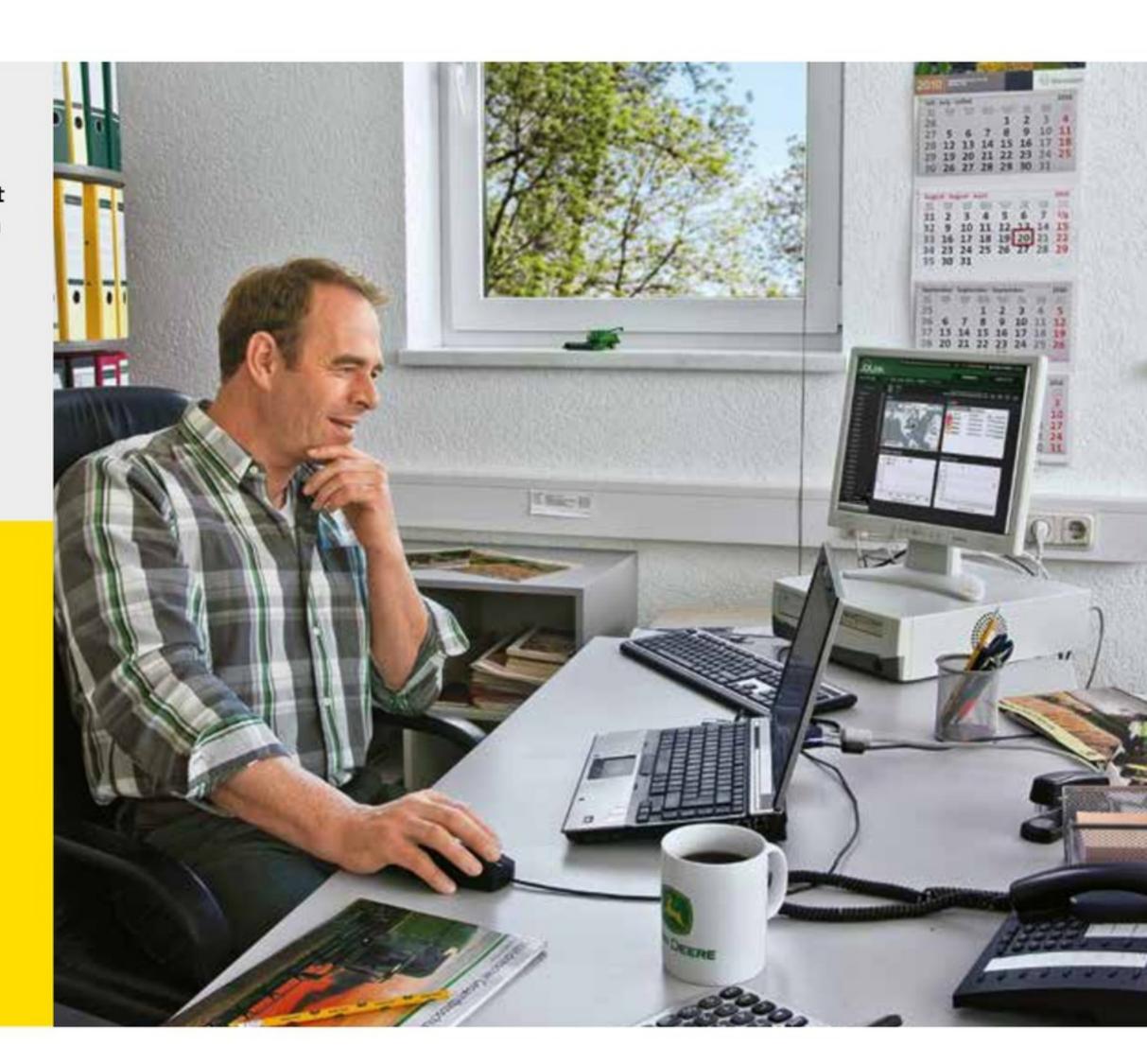
FieldDoc™ (optional)

This real-time documentation software records all operations automatically - then lets you transfer them to your PC for analysis later on.

Please note: these GPS-based tools require a GreenStar 2630 Display and a StarFire™ receiver. Contact your dealer for details!

Spray-to-map prescription mapping (optional)

Need to spray variable rates of fertiliser, herbicides, fungicides or growth regulators? No problem: just create prescribed application maps in Operations Center, import them to the GreenStar 2630 Display in your cab and you're ready to go.



Filling: control made easy

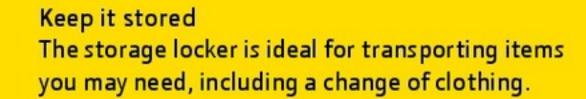
Operation could not be easier or more convenient. The ergonomic operator station is equipped with large valve handles that minimise the possibility of mistakes and save valuable time during machine set-up. Optional i-Solutions make filling, spraying and rinsing even faster, easier and more precise. The liquid circulation system is divided into two functional areas: working and spraying. This ensures that the optimum pressure is available where it's most needed. Located near the valves is the chemical inductor, spray gun and clothing lockers. Filters and hose connections are perfectly located for ease of operation.

- Durable manual valves
- Faster filling via 51 mm (2 in.) fill hose connection
- Automatic audible filling warning (optional)
- Self-priming piston diaphragm pump
- 55 L chemical inductor
- Transfer valve, 51 mm (2 in.) quick fill for rinse water tank
- Closed chemical transfer system (optional)



Digital tank level indicator Saves chemicals and time by showing current tank content, remaining area to spray and remaining distance to spray on the display.

Keep it clean After filling, wash your hands in the separate wash tank that holds up to 20 L of clean water.









Transport: built for speed and stability

With its low centre of gravity and even weight distribution, the on-road performance of the M700i is exemplary. Even with a full tank it can be trailed safely and easily at speeds of up to 40 km/h.

The maintenance-free double link axle suspension is a simple and cost effective solution that absorbs shock and helps prolong the working lifetime of the sprayer. There are four available drawbar options, 2 fixed and 2 steering versions. And our boom transport lock, elegantly but firmly secures the boom during transport.

- Smooth riding
- Better spray accuracy
- Underside designed for smooth passage over crops





- A Different hitch types provide a smooth ride
- B Slim drawbar design for sharp turns and smooth tracking on headlands.
- Steering drawbar: available with automatic trailing or manual steering. In headland turns automatic trailing ensures that the sprayer follows the tractor's rear wheels automatically. On/off switching at the headland is executed automatically via the HMS.
- Boom transport protection: minimises stress and wear to the boom during fast, on-road transport.
- Low-profile design: even weight distribution and low centre of gravity ensure safe, easy handling at speeds up to 40 km/h.
- Clothing storage locker. Ideal for transporting a change of clothing or other items.

Booms: high accuracy, higher yields

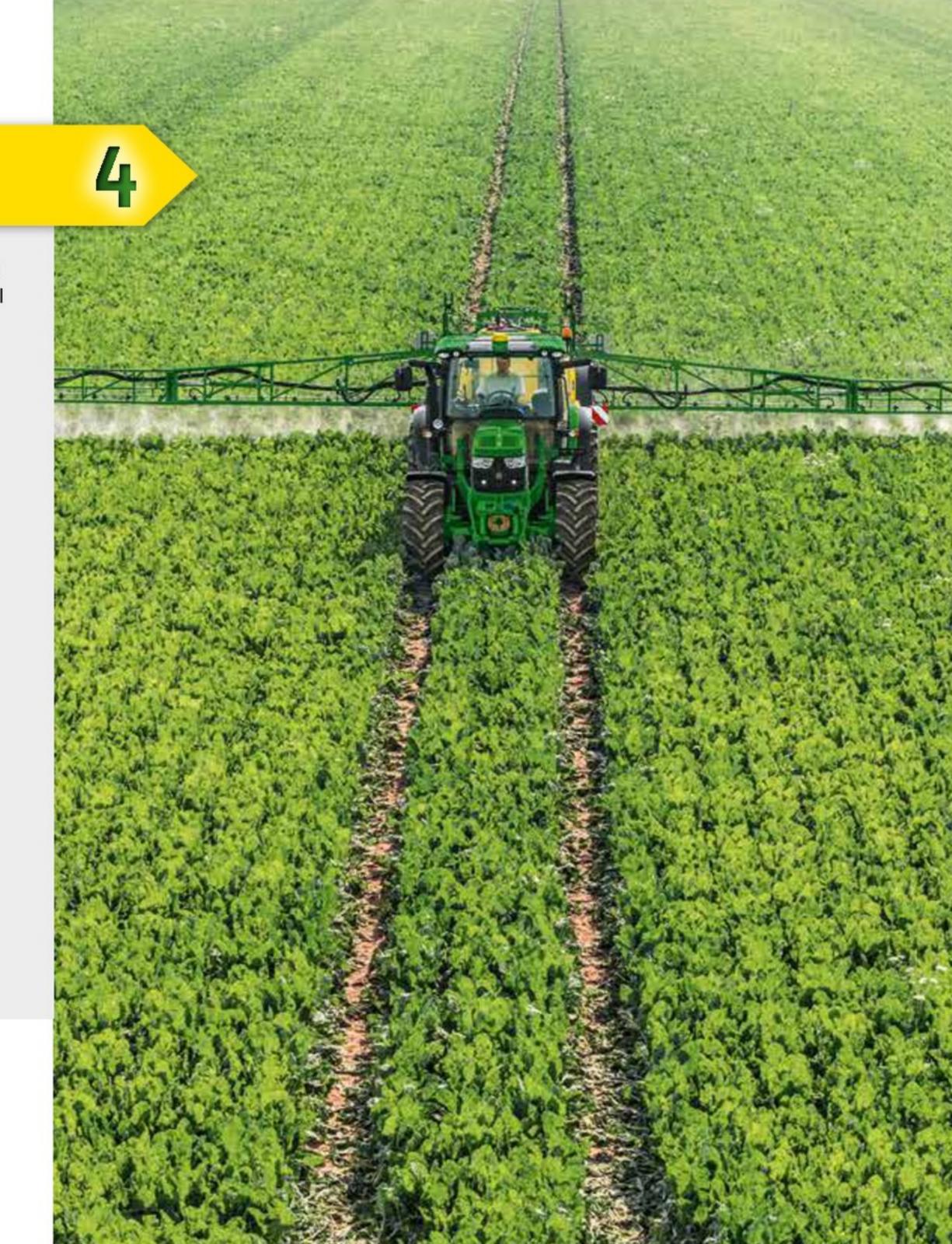
Precision spraying is dependent on boom stability and John Deere booms are renowned for their stability and durability. We offer a wide range of double and triple folding steel booms, all with the quality features that ensure reliable, high precision performance, year after year.

Accuracy starts with boom stability

An unstable boom leads directly to chemical wastage and poorer yields. All John Deere booms have the stability and features that precision spraying demands and accuracy optimises spray distribution quality, thus promoting productivity.

- Central pendulum for boom levelling
- Boom anti-yaw suspension maintains the highest spray distribution quality
- End-stroke damping in boom fold cylinders minimises wear at hinge points
- Sturdy ball and socket hinges with grease points for extended boom life
- Vertical and horizontal boom breakaway
- Stainless steel spray lines with quick connectors
- BoomTrac™ automatic boom height and tilt control system
- Variable geometry control to adjust boom angle to ground contours

Boom folding operation can be executed via the tractor SCV, electro-hydraulic selector or electro-hydraulic control.

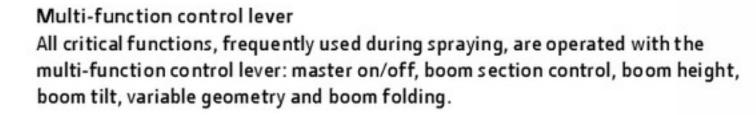


Independent boom anti-yaw suspension (optional) Ensures optimised spray accuracy in stubble paddocks and other rough conditions by filtering out yaw movement from both boom wings.











Double folded booms 18 – 28 metres	No. of sections		Section widths, m
18 / 12 m	6	3-3-3-3-3	*************
20 / 12 m	5	4-4-4-4	***************
21 / 12 m	7	3-3-3-3-3-3	**************************************
24 / 12 m	4	6-6-6-6	**************************************
24 / 12 m	6	4-4-4-4-4	***************************************
24 / 12 m	8	3-3-3-3-3-3-3	***************************************
27 / 14 m	6	4.5-4.5-4.5-4.5-4.5	**************************************
27 / 14 m	9	3-3-3-3-3-3-3	260 Jan 300 Ja
28 / 14 m	7	4-4-4-4-4	
28 / 14 m	8	4-3-4-3-3-4-3-4	***************************************
Triple folded booms 24 – 30 metres	No. of sections		Section widths, m
24 / 18 m	7	3-3-3-3-3-3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
27 / 18 m	7	4.5-4.5-3-3-3-4.5-4.5	***********
27/21 m	9	3-3-3-3-3-3-3	******************
28 / 20 m	7	4-4-4-4-4-4	**********************
30/21 m	10	3-3-3-3-3-3-3-3	Terr Service Service Service Service

Spraying: precision delivery

The M700i makes every drop of chemical count, by taking the guesswork out of spraying. John Deere technologies help your operators cover more hectares with a single tank fill.

Pump up the power

The 280 Lpm self-priming pump delivers fluid where it's needed by minimising the potential flow disruption.

Ring-line circulation system

Enabling quick spray starts without wasting time or chemicals, the system maintains spray liquid circulation up to the boom section valves as soon as the master is closed. When you're done, it briefly speeds up to simplify a thorough cleanout.

Accuracy

The durable Z-bar parallelogram construction provides equal height adjustment speed and rear-side clearance. Optional BoomTrac™ height control helps initiate spraying at the correct height for excellent spray distribution. The pendulum anti-yaw system keeps the boom in position by absorbing vertical and horizontal movement.



Because every drop is precious

Intelligence provides premium precision and boosts productivity in a smarter way. John Deere sprayers are loaded with intelligent features and integrated solutions, like Section Control, BoomTrac and Map Based Variable Rate Application that make spraying operations faster, easier and more accurate.

John Deere Section Control

John Deere Section Control (GreenStar™ 3 2630 Display) or Swath Control Pro (GreenStar 2 1800 Display) takes full control of the boom sections, automatically switching them on and off when you leave or enter predefined areas and also the headland.

Even with less experienced operators and even in wedge shaped paddocks, it reduces skips or overlaps and hence input costs for chemicals.

Map based Variable Rate Application

Different areas need different amounts of crop care. This technology lets you set your application rates in advance, using prescription maps you prepare on your office PC. In the paddock, your sprayer then makes all the adjustments in real time, leaving operators free to focus on quality and productivity. The software you need to run Variable Rate Applications in the paddock comes preloaded on your GreenStar 3 2630 Display.







Rinsing & dilution: clean solutions

You can rinse and dilute quickly and effectively, all from the comfort of your cab. Simply select the programme you want on the GreenStar™ display, then let the machine do all the work.

Everything about the M700i is designed to streamline rinsing and dilution procedures. The rounded tank eliminates flow-disruptive corners and baffles and you can clean right up to the boom section valves with optional ringline circulation.





AutoDilute

This optional system calculates how much clean water and how many cycles you need to achieve a given dilution factor. It takes all dead volume and remaining contents into account.

A separate pump sends the clean water from the rinse tank to the tank rinsing nozzles to dilute the contents. The spray pump circulates the diluted contents through the complete sprayer plumbing and spray boom.

Auto Dilute is designed to meet all valid legislative requirements and make sure even less experienced operators obtain good results every time.

- Comfortable, in-cab control over the entire dilution process
- Faster rinsing for higher productivity
- Fewer operator errors
- Less crop damage and environmental pollution



Customising your sprayer: choose the screen you need ...

	ISOBUS	Documentation	Section Control
GreenStar™ 2 1800 Display	×		Х
GreenStar 3 2630 Dis play	х	Х	Х
CommandCenter™ Display	X		

The GreenStar 2 1800 Display
Looking for outstanding flexibility, comprehensive
guidance, realistic paddock views and ISOBUS
implement control? Take a closer look at our
GreenStar 2 1800 Display!

- 178 mm (7 in.) full colour push-button display
- Easy to navigate scroll wheel
- ISOBUS compatible (Virtual Terminal)
- John Deere Documentation Basics
- GreenStar Swath Control Pro enabled
- Compatible with StarFire™ 3000 and 6000 receivers
- Compatible with M700i (ISOBUS)

The GreenStar 3 2630 Display

As your business grows, so do your challenges. That's why it makes sense to invest in a display that has the future built in: the new GreenStar 3 2630 Display. This full colour touch-screen display gives you full monitoring and control over all the Precision Ag you use in your John Deere tractor, Self Propelled Forage Harvester, combine or sprayer.

- Guidance and advanced Guidance
- Documentation and Map Based Variable Rate Application
- Advanced ISOBUS capabilities (e.g. John Deere Section Control)
- Automatic implement detection
- Brilliant 260 mm (10 in.) touchscreen, video enabled
- Performance monitoring
- USB port for data transfer
- Standby mode for road transport or night-time use





... and the convenience you prefer

Special attachments for enhancing performance

There are many ways for you to customise your John Deere sprayer. Here are a few of the attachments we offer either factory fitted or as a field installation kit. Your dealer will supply you with more detailed information.

StarFire 6000 receivers

The John Deere StarFire 6000 Receiver is an enhanced replacement for the StarFire 3000 Receiver and expands on the value that precision agriculture customers have come to expect from StarFire products. The StarFire 6000 Receiver implements an improved antenna, the latest in Global Navigation Satellite System (GNSS) signal processing technology, and a new differential correction signal. All of this new technology adds up to improved performance and uptime as well as lower cost of operation when paired with precision agriculture systems such as AutoTrac™ assisted steering system and John Deere Section Control.

Boom Suspension kit for hilly paddocks

To enhance the boom ride at higher operating speeds or in hilly terrain, a special optional kit is available. Simply mount the compression springs between the centre pendulum and boom back frame.

StarFire 6000 receiver



Edge nozzle holder

Edge nozzle holders should be positioned at the end of the spray boom and fitted with edge spray tips to prevent spraying beyond your paddock boundaries. Two types of edge nozzle holders are available, controlled either manually or electrically, both with multiple nozzle bodies.

Self-cleaning pressure filter

The self-cleaning filter kit allows operators to flush debris that may have collected in the base of the pressure filter without removing the filter bowl.

Closed chemical transfer ECOMATIC System

The sprayer can be equipped with an optional closed chemical transfer filling system for use of larger, refillable containers for easier handling of agrochemicals. The kit comprises the connection into the suction side of the pump and transfers the chemicals into the tank.



Choose between two types of edge nozzle holder.

Specifications

M700i SERIES	M724i / M732i / M740i
Nominal tank volume, L	2,400 / 3,200 / 4,000
Real tank volume, L	2,520 / 3,360 / 4,200
Rinse tank, L	400
Hand wash tank, L	20
ISO-BUS (9 pole Deutsch Connector)	•
Sprayer Control with multi-functional lever (Joystick)	•
GS 1800 Display	0
GS 2630 Display	0
GPS automatic Section Control	0
Sprayer pump type	Self priming piston diaphragm pump
Pum p capacity	280 Lpm
PTO Pumpdrive (Walterscheid wide angle PTO shaft)	•
Spray pressure min – max, bar	1 – 10 bar
Ground Clearance under axle,* mm	650 - 750
Polyurethane double linked axle suspension	0
Track width availibilty *, mm	1,500 - 2,250
Fixed drawbar upper or lower linkage	•
Steering drawbar upper or lower linkage	0
Boom Trac™ automatic boom tilt and height control with headland management	0
Working lights (halogen or LED)	0

^{*}Depending on track width and selected tyres.

NOZZLES	M724i / M732i / M740i
Check JohnDeere.com.au or JohnDeere.co.nz to select the right nozzle for your application	
John Deere ER polyacetal (with cap and seal)	0
Teejet XR polymer (with cap and seal)	0
Turbo TwinJet TTJ60 polymer (with cap and seal)	0
Lechler ID, POM (with cap and seal)	0
Lechler ID, ceramic (with cap and seal)	0
John Deere GAT polyacetal (with cap and seal)	0
Teejet AI stainless steel (with cap and seal)	0
Lechler IDK, ceramic (with cap and seal)	0
John Deere Ultra Low Drift polyacetal (with cap and seal)	0
John Deere Low-Drift Air polyacetal (with cap and seal)	0
Teejet AI stainless steel (with cap and seal)	0
John Deere Straight Stream Ceramic, Fertiliser nozzles	
TeeJet StreamJet 3-hole nozzle SJ3-VP	0
TeeJet StreamJet 7-hole nozzle SJ7-VP	0
Edge nozzles	
Teejet AIUB, stainless steel (with cap and seal)	0
Lechler IS, POM (with cap and seal)	0

SOLUTION SYSTEM	M724i / M732i / M740i
	IVI/241/ IVI/321/ IVI/401
Manual operated valves	•
Multi cycle dilution system (AutoDilute) including digital tank level sensor	0
Non-return checkvalve at 51 mm (2 in.) filling connection	0
Horn audible alarm for tank filling	0
Filling Injector	0
Clothing locker	0
60 L closed chemical storage box with lock	0
Transfer valve 51 mm (2 in.) to pump liquid back to storage	0
Digital tank level sensor with detailled readout in display	0
External pump filling connection 51 mm (2 in.), (hydrant)	0
Closed chemical transfer system (ECOMATIC)	0
51 mm (2 in.) Quick fill connector for rinse water tank	0
Electric agitation automatic on /off based on tank level, (free programmable)	0
Spray rate control selection presurre- flow sensor or both	0
Chemical inductor hopper capacity, 55 L	•
Spraygun at chemical inductor hopper	0
Rinsing head in filling opening	0
6 m or 9 m, 51 mm (2 in.) filling hose/ with or without transport bracket	0
Self cleaning pressure filter	0
Brush with hose reel	0

TYRE SIZES*	M724i / M732i / M740i
Tyres mounted on fully welded rims (10 bolts) factory choice tyres are mounted	0
230/95R48 (136A8/136B), 10 bolts	0
270/95R48 (144A8/140B), 10 bolts	0
300/95R46 (148A8/144B), 10 bolts	0
340/85R48 (152A8/152B), 10 bolts	0
420/85R38 (144A8/141B), 10 bolts	0
480/70R38 (145A8/142B), 10 bolts	0
520/70R38 (150A8/147B), 10 bolts	0
520/85R38 (155A8/152B), 10 bolts	0

 $^{^{\}star}$ Selectable tyre size is depending on machine type and axle load.

SPRAYBOOM & HYDRAULICS	M724i / M732i / M740i
Boom height range* mm	480 - 2,240
Spray boom material	Steel
Ball and socket bearings in swivel points with grease points	•
Stainless steel spray lines with quick-connect couplings	•
3 directional boom breakaway protection	•
Z-bar parallelogram, hydraulic height adjustment with a nitrogen pressure accumulator supension and hydraulic transport lock	•
Centre frame with independent vertical and horizontal boom suspension and pendulum lock (push rod anti-yaw system)	0
Boom suspension kit for spraying hilly paddocks	0
Boom gauging device prevents boom tip grounding	0
End stroke dampening in hydraulic boom folding cylinders between spray boom segments	•
Electro-hydaulic control for sprayboom, folding, height and tilt adjustment with auto centre function, boom tilt positioning indicator in	0
display actual or pre-set postion, (optional variable geometry and/or steering drawbar only with electro hydraulic control)	
Load sense hydraulics	0
Hydraulic oil filter (only with electro hydraulic control)	•
Multiple nozzle holder 5 way	•
Off centre nozzle	0
Edge nozzle manual or electric operation	0
Standard spray system, boom sections located in centre frame	•
Ringline spray system, liquid circulation section valves located accros spay boom	0
Rased on tyre size 420/8 5P38	

*Based or	n tyre size	420/85R38.
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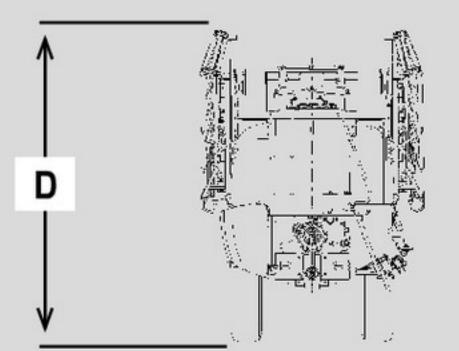
WEIGHTS*	M724i	M732i	M740i
Total weight empty, kg	3,310	3,340	3,380
Total weight full, kg	6,130	6,960	7,800

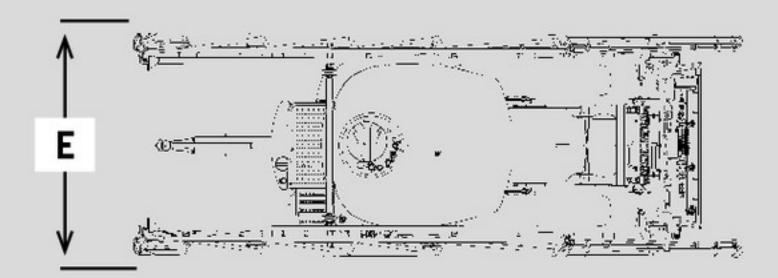
^{*}All weights are approximate with base equipment 300/95R46 tyres, 24 m boom and filled with water.

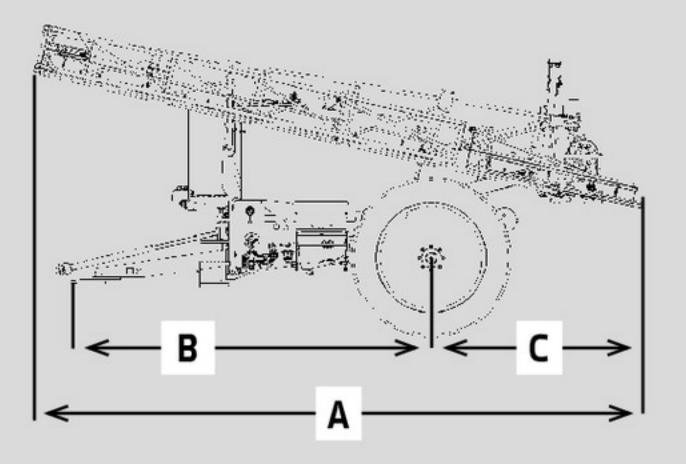
MEASUREMENTS IN CM					
Base sprayer	A	В	С	D	E
Double folded boom M700i					
18 / 12 m; 20 / 12 m; 21 / 12 m	555	420	198	324	255
24 / 12 m	610	420	246	324	255
27 / 14 m	646	420	246	350**-400*	255
28 / 14 m	696	420	246	350**-400*	255
Triple folded boom M700i					
24 / 18 m; 27 / 18 m	456	420	198	318	300
27 / 21 m	550	420	292	318	300
28 / 20 m	510	420	243	318	300
30 / 20 m	550	420	292	318	300

^{*}All measurements are approximate with tyres 270/95R48 and 1.8 m track. Overall machine height and clearance under neath the boom in transport position depends on boom adjustment.

**Clearance KIT 362-412 cm.







The ideal partnership



Together with the John Deere dealership network, we are committed to keeping your operations up and running. We never stop investing in products and technologies that are quality-built, state of the art and also dedicated to reducing operating costs. Our effective dealer network – whose employees are all John Deere trained – are familiar with every nut and bolt in your equipment and skilled at diagnosing any potential problems.

You can count on your partnership with us and with our dealer network. After over 175 years in the farm equipment business, we can be sure that together we're better.

