800 and 800i Series Trailed Sprayers
The 832 and 840 Series trailed sprayer models share more than a common design. They also set new standards for productivity, spraying accuracy, operator comfort and convenience. Loaded with innovations, these trailed sprayers provide measurable advantages. They give you greater control over tight spraying schedules, improve linearity, increase efficiencies, help you control costs and lead the way in addressing environmental concerns. Best of all, these new sprayers are built by John Deere. Any way you look at them, these new John Deere trailed sprayers measure up.

**800/800i Series Trailed Sprayers**

**832 and 840**

The 832 and 840 sprayers are an excellent choice when you need a highly productive and rugged, dependable sprayer. It offers 3200 litre (832) or 4000 litre (840) solution tanks. Available with boom sizes up to 40 metres, this machine is ideal for large-scale farmers and contractors where maximum application uniformity and productivity is needed.

**832i and 840i**

The 832i and the 840i sprayers with ISOBUS ready spray controllers set new standards for productivity, accuracy, automation and convenience while delivering more potential than ever before in ease of use combined with Intelligent Spraying Solutions, like Autotrac, BoomTrac and John Deere Sprayer Pro.

**800 and 800i TwinFluid**

The 832i and 840i TwinFluid sprayers are the ultimate choice for extra large arable farmers or intensive potato or vegetable growers. The TwinFluid low volume, air assisted spraying system reduces filling and transport time to boost productivity and improve efficiencies. Improved spray deposition and better crop penetration deliver excellent spray efficiency to minimise dose rates and maximise yields.

---

### Excellence in spraying, intelligence in documentation and automation
European Network for Testing of Agricultural Machines

Forward thinking technology for the ultimate application

Technical capabilities, convenience, ease of use, superior spraying accuracy … if you’re looking for a sprayer that delivers all these advantages, the John Deere 800 and 800i Series trailed sprayers are built for you. The 800 Series sprayers are available with the TwinFluid, low volume application technology to boost productivity and reduce drift. The continuous circulation system on 800i as well as the continuous circulation system with pneumatic nozzle shut off (base on 800i and 800i TF) gets you into the field quickly, without wasting chemical and enables a fast and thorough washout. Plus, the new 800i Series ISOBUS ready sprayers with GreenStar 2 displays provide you advanced documentation, guidance and sprayer control options.

Technology Overview

ENTAM study proves outstanding John Deere performance

Independent research confirms the outstanding performance of John Deere trailed sprayers. The European Network for Testing Agricultural Machinery (ENTAM) tested and evaluated virtually every functional aspect of a John Deere 840 trailed sprayer. The results? The 840 Trailing Sprayer was the first sprayer on the market that met or exceeded every single EN12761 test requirement, based on the European standard for Environmental Protection for Sprayers (EN-12761).

The sprayer was thoroughly tested to determine the accuracy and technical performance of the machine. Measurements performed include items such as tank agitation, spray distribution quality, accuracy of dose rate, regulation speed of rate control, amount of dead volume, accuracy of measuring devices (pressure gauge, flow sensor, level indicator, etc), dripping of nozzles, cleaning and rinsing of empty containers with the chemical inductor and more. The chart provides an overview of the ENTAM test results. Better yet, talk to your John Deere dealer for information and greater insights into the performance advantages offered by John Deere’s 800 and 800i Series trailed sprayers.

ENTAM Assessment

ENTAM Assessment of John Deere Trailed Sprayer

<table>
<thead>
<tr>
<th>Test criteria acc. Assessment EN 12761/2 Contents – Technical Requirement</th>
<th>Assessment</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1.1.1 Spray tank surface roughness (max. 0.1 mm)  ++</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.1.1.2 Spray tank max. volume (min. 5% above nominal)</td>
<td>0</td>
<td></td>
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<tr>
<td>4.1.1.3 Residual liquid (max. 0.5% nominal capacity +2 l/m)  ++ (undilutable)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>4.1.1.4 Accuracy spray tank contents gauge up to 20% filling contents (max. 7.5%)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>4.1.1.5 Agitation systems test homogeneity of spray liquid concentration, deviation max. 10%</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>4.1.3.1 Width of individual boom sections (max. 6 m)  ++</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.1.3.2 Boom height adjustment range (min. 1 m)</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>4.1.5 Anti drip device (max. 2 ml after 8 sec)  ++</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.1.6 (a) Accuracy of pressure gauge (max. 0.2 bar inaccuracy)  ++</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.1.6 (b) Accuracy of flow sensor (max. 5% error)</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>4.2 Accuracy of rate control system (deviation from target rate, max. 6%)</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>4.2.2 (a) Regulation speed for changing operating conditions (max. 10% deviation of dose rate after 7 seconds)</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>4.2.2 (b) Consistency of dose rate (CV max. 3%)  ++</td>
<td></td>
<td></td>
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<tr>
<td>4.2.3 Pressure drop between pressure gauge and nozzles (Max. 10%)  ++</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.3.1 (a) Accuracy of single nozzle flow rate (max. 5% deviation from mean value)</td>
<td>+</td>
<td></td>
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<tr>
<td>4.3.1 (b) Deviation of nozzle output from spray table</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>4.3.1 (c) Uniformity of transverse spray liquid distribution (CV max. 9% or max 7% respectively)</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>4.4 Volume of clean water tank (min. 10% of main tank)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>7 Cleaning of empty chemical containers (max 0.01% of original concentration after 30 sec)  ++</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: The assessment takes place in 3 steps linearly according to the permissible variation (++,+,0)
The new documentation features of the GreenStar 2 displays provide on-screen mapping in colour, which helps you eliminate overlaps and skips. During spraying, real-time changes in application rates and boom section activation status are reflected on the as-applied maps in the GreenStar 2 System, along with a legend that defines each colour recorded. This provides the most accurate documentation for spray applications to prove full compliance with buffer zones and provides better data input for all further applications.

The 800i Series trailed sprayer is also prepared for map-based spraying with variable rate applications.

Take full command of your sprayer with the GreenStar 2 ISO displays

ISOBUS is the international standard for communication between tractors, implements and farm software. All future leading-edge technology will be based on this standard. The new 800i sprays are fully compatible with all ISOBUS ready tractors. ISOBUS enables control and operation of different implements with one ISO terminal.

The new ISOBUS compatibility:
• Saves time and labour while connecting different implements
• Allows easier operation of different machines
• Frees more space in the cab for better visibility
• Saves money since only one display is required

What does ISOBUS mean for you when it comes to spraying?
• Total control of the sprayer with the highest level of automation for refilling, mixing, spraying and documentation.
• GS2 Displays are pre-loaded with guidance, documentation and map-based spraying software.

GS2 Display
• Two different displays available
• Certified to meet ISOBUS standards
• Single display for all certified implements
• Excellent control with integrated solution

The GS2 reconfigurable display gives you full control over your sprayer while accurately recording spray applications and providing you with a whole new view of your in-field guidance.

When your tractor is equipped with the StarFire iTC GPS receiver you can use AutoTrac or Parallel Tracking for guidance to reduce overlaps and skips, while also accessing more advanced documentation and spray control tools.

When you want to analyse and optimise your farming operation why not use John Deere desktop software. Desktop software lets you input your own precise spray data and other documented applications, when planning your next spraying job (e.g. to comply). Then easily take your planned job and place the Data Card into the GreenStar 2 display, where it is predefined task and start spraying. While you are working to optimise your farming operation and increase profits you also automatically create the documentation that legislation requires for traceability, to prove best practices and to demonstrate cross-compliance for your records.

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Smarter farming begins here

Intelligent spraying solutions

Our Agricultural Management Solutions are exactly that ... solutions to the management and operational issues those growers have faced for years. Whether it's steering the tractor, recording application rates, monitoring overlaps and skips, switching boom sections on and off or any other GPS-based function, the new GreenStar 2 System enhances the functionality of our original GreenStar system and adds a reconfigurable display. And our John Deere system is completely integrated with all the systems within your tractor and sprayer.

SprayPRO Package – intelligence in automation

SprayPRO package
  • Intelligence in automation
  • Automatic boom section control
  • Automatic master on/off

The new SprayPRO package enables automatic boom section control when spraying point rows, as well as automatic master valve on/off at the headland. You can order your full ISOBUS ready 800i Series trailed sprayer with the optionally available GreenStar SprayPro package.

SprayPro takes full control over the boom sections and automatically switches them on and off when entering an area in the field that has already been sprayed or when outside the field boundaries. The master valve is automatically switched on and off at the headland.

Depending on the type of chemicals sprayed, two different operation modes can be selected:

• No overlap to avoid crop damage
• No skips for complete field coverage

8
Choose from a variety of control boxes to operate your trailed sprayer and tailor it to your needs. The EL-4 automatic rate controller provides simple operation, excellent functionality and reliable performance. It can be equipped with the EHB-2 hydraulic switch box for enhanced control of spray boom functions and the trailing drawbar.

For additional functionality in combination with the GSD 2100 or GSD 2600, ISO displays select the CAN-BUS based EHC-2 switch box. The EHC-2 control box is the most advanced controller to control a sprayer. The EHC-2 control box offers electronic control of all sprayer functions. The communication via CAN-BUS technology is found on state-of-the-art tractors and cars. This electronic system improves diagnostics and offers much more functionality and reliable performance. It can be equipped with the EHB-2. The EHC-2 offers a new method of section control. You can open and close all boom sections simultaneously. Instead of having to use up to 15 section switches when switching on/off sections one after another when spraying in a field, you now have much easier control with only 3 switches.

EL-4 Control
The EL-4 control box has low control pressure. Master valve and up to 3 boom section valves. Additional functions, such as boom lift control with preset trimming and edge cuts are available too. The large, durable switches are easy to operate. The frequently used Master valve switch is larger for better visibility. The integrated spray rate control allows accuracy and ease of use. You only have to choose the colour of the nozzle and the desired target application rate and the controller will do the rest. During spraying you can simultaneously monitor travel speed, spray pressure, and the application rate and alternating volume sprayed and hectares treated. It is possible to change the target application rate “on-the-go” for temporary over or under dosing in certain areas; for example, with liquid fertiliser or herbicides.

EHC-2 Control
With the EHC-2 switch box the following functions can be controlled:

- Spraying pressure (both outlet and main pressure for spray boom and boom extension)
- Master valve and up to 15 section valves (per boom section control)
- Edge tips and foam marker
- Master valve and up to 15 boom section valves (with sequential control)
- Agitation on/off
- Boom tilt with preset trimming (rotary switch)
- Boom folding, boom folding tips left/right
- Boom height adjustment
- Boom lock
- Sequential section control
- Edge tips and foam marker
- Automatic rate controller provides simple operation, excellent functionality and reliable performance.

Control Boxes
- Variety of control boxes
- Electronic control
- Large, durable switches

Sequential section control
The EHC-2 offers a new method of section control. You can open and close all boom sections simultaneously with one switch. This control box offers electronic control of all spray boom functions and the trailing drawbar. For additional functionality in combination with the GSD 2100 or GSD 2600, ISO displays select the CAN-BUS based EHC-2 switch box. The EHC-2 control box is the most advanced controller to control a sprayer. The EHC-2 control box offers electronic control of all sprayer functions. The communication via CAN-BUS technology is found on state-of-the-art tractors and cars. This electronic system improves diagnostics and offers much more functionality and reliable performance. It can be equipped with the EHB-2. The EHC-2 offers a new method of section control. You can open and close all boom sections simultaneously. Instead of having to use up to 15 section switches when switching on/off sections one after another when spraying in a field, you now have much easier control with only 3 switches.

<table>
<thead>
<tr>
<th>Function</th>
<th>EL-4 Control</th>
<th>EHC-2 Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic rate controller</td>
<td>🔺</td>
<td>🔺</td>
</tr>
<tr>
<td>Master valve</td>
<td>🔺</td>
<td>🔺</td>
</tr>
<tr>
<td>Up to 3 boom section valves</td>
<td>🔺</td>
<td>🔺</td>
</tr>
<tr>
<td>Additional functions</td>
<td>🔺</td>
<td>🔺</td>
</tr>
<tr>
<td>Boost mode (± 10%)</td>
<td>🔺</td>
<td>🔺</td>
</tr>
<tr>
<td>Pressure and flow based</td>
<td>🔺</td>
<td>🔺</td>
</tr>
<tr>
<td>Programme</td>
<td>🔺</td>
<td>🔺</td>
</tr>
</tbody>
</table>
Greater strength, increased versatility, higher speed

A massive chassis provides a solid foundation for high capacity solution tanks and wide spray booms. The chassis is made to withstand the toughest field conditions and high speed road transport of up to a homologated 50 km/h with fully loaded tanks. The design of the sprayer is short and compact to allow sharp turning and accurate trailing but the centre of gravity is low enough to ensure utmost stability when spraying on slopes.

Chassis, Suspension and Tyres

Chassis and Suspension

• Massive, heavy duty chassis – unsurpassed strength, durability and trouble-free performance
• Large axles and a rugged chassis allow the use of larger tanks and better flotation and soil protection
• Heavy duty chassis design with innovative and suspension for high speed transport with full tank
• Maintenance free, dependable double link suspension is built specifically for spray to provide outstanding performance over a wide range of loads

Large heavy duty axles with drum brakes and integrated speed sensor offer years of trouble-free spraying. Different axle widths are available to tailor the track width of the sprayer to different row spacing and tramline systems. With the fixed axle you can change the tread from 1.50 to 1.80 m by changing the wheels between left and right. Sliding axles offer a stepless adjustment of track width either from 1.50 to 2.00 m or from 1.72 to 2.25 m.

All sprayers can be equipped with either hydraulic or pneumatic brakes.

With the smooth and flat underside of the frame and a superb under-frame ground clearance of 750 mm (with 48 inch wheels), crop damage is minimal.

High speed transport option.

If you spend a lot of time moving your sprayer from one field to another or to your filling location, you’ll pick up speed and efficiency with the high speed transport option. It lets you transport at speeds up to 50 km/h with fully loaded tanks, where allowed. The high speed options include (depending on the type of sprayer) heavier axles, wheels and tyres, as well as enhanced braking.

Heavy duty axle suspension.

For smoother and faster road transport, as well as absorbing shocks in the fields, the sprayer can be equipped with the optional double link axle suspension. Bear in mind that axle suspension for sprayers must be particularly versatile to cope with both full and empty load situations. Sophisticated polyurethane dampers with micro air chambers offer superb suspension performance and don’t require any maintenance at all. Complicated height regulation systems for the axle are not necessary, since the change of travel between full and empty load is very short. It’s simple and reliable but still offers unsurpassed absorption of heavy shocks. Since the double link suspension only allows vertical axle movement, the sprayer will not move in curves or on hillsides. What’s more, the bonus will damage remains possible to the field. With double link suspension your sprayer now moves in the same way as the field will not move except where appropriate to your machine. The overall performance of the sprayer is increased, thus productivity and a longer sprayer life.

With the smooth and flat underside of the frame and a superb under-frame ground clearance of 750 mm (with 48 inch wheels), crop damage is minimal.
The drawbar type and tow eye configuration can be tailored to any kind of tractor connection, whether it is a swaying drawbar, a pick-up hitch, a Piton Fix, a height adjustable wagon hitch or a ball type hitch. You have the choice between a lower linkage drawbar or a universal drawbar (universal drawbar is standard for 800i and 800i TF). The universal drawbar can be set in an upper and lower linkage position. This drawbar is adjustable both in length and height, so any kind of tractor will be fully compatible and accurate trailing can always be achieved. The pumps and optional compressor for TwinFluid are completely protected but remain easily accessible for service. Both drawbars are mounted on the chassis with a heavy duty pivot point. The drawbar can be upgraded from a fixed configuration to automatic trailing.

**Variety of available drawbars**

- **Adaptable**, the drawbar type can be tailored to any tractor connection.
- **Deluxe Universal** drawbar can be set in upper or lower linkage position to optimise weight transfer, stability and ground clearance.
- **Universal drawbar** length can be shortened or lengthened for more accurate trailing with any type of tractor. Hydraulic steering allows manual control of the drawbar, particularly useful when spraying on slopes to avoid downhill drift.

**Headland Management System**

After making the headland turn, the drawbar is centred again and switched into manual mode. The sprayer runs smoothly during spraying without excessive yawing of the boom.

*The John Deere drawbar steering system uses an electro-hydraulic controlled drawbar with a heavy duty hinge point that ensures fine tuned tracking control and durability.*

The automatic trailing drawbar provides an innovative headland management system for fully automatic, effortless operation.

**Automatic Trailing Drawbar**

- **Innovative automatic trailing drawbar design** reduces crop damage
- **Short and compact machine design** provides outstanding tracking and manoeuvrability and enables sharp turning
- **Headland Management System with single, pushbutton offers convenience without affecting boom ride and stability**

Two sensors mounted on the drawbar measure the variation of the tractor to the drawbar, activating the automatic drawbar control. The drawbar steering should only work on headlands and not while spraying, to ensure a stable ride and a good spray distribution. With the Headland Management System the trailing system is now automatically switched ON at the headland every time. Once you’ve made the turn, the steering is automatically switched OFF and the drawbar is automatically steered back to the central position so that the machine runs straight behind the tractor. You also have the option of manual control on headlands or to manoeuvre the sprayer into tight corners. This trailing system offers outstanding accuracy and a very short turning radius, without affecting boom ride and stability on the road and in the field.

**Trailing Drawbar**

- **Innovative automatic trailing drawbar design** reduces crop damage
- **Short and compact machine design** provides outstanding tracking and manoeuvrability and enables sharp turning
- **Headland Management System with single, pushbutton offers convenience without affecting boom ride and stability**
### Maximum versatility – Easy to operate

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Piston-diaphragm pump</td>
</tr>
<tr>
<td>2</td>
<td>Filtration with strainer and float</td>
</tr>
<tr>
<td>3</td>
<td>Electric-operated master valve</td>
</tr>
<tr>
<td>4</td>
<td>Pressure selection valve</td>
</tr>
<tr>
<td>5</td>
<td>Electric spray pressure regulator</td>
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<tr>
<td>6</td>
<td>Primary pressure regulator</td>
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<tr>
<td>7</td>
<td>Recirculation valve</td>
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<tr>
<td>8</td>
<td>Agitation control valve</td>
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<tr>
<td>9</td>
<td>Solution tank connection</td>
</tr>
<tr>
<td>10</td>
<td>Solution tank with basket strainer</td>
</tr>
<tr>
<td>11</td>
<td>Header with hose reel option</td>
</tr>
<tr>
<td>12</td>
<td>Spray hose with strainer</td>
</tr>
<tr>
<td>13</td>
<td>Spray nozzle</td>
</tr>
<tr>
<td>14</td>
<td>Spray gun connection</td>
</tr>
<tr>
<td>15</td>
<td>Pressure gauge</td>
</tr>
<tr>
<td>16</td>
<td>Spray fan connection</td>
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<tr>
<td>17</td>
<td>Pressure sensor</td>
</tr>
<tr>
<td>18</td>
<td>Flow sensor</td>
</tr>
<tr>
<td>19</td>
<td>Strainer tank rinsing nozzles</td>
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<tr>
<td>20</td>
<td>Transfer valve with hose connection</td>
</tr>
<tr>
<td>21</td>
<td>Brush with hose reel option</td>
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<td>22</td>
<td>Cleaning system injection nozzles</td>
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<tr>
<td>23</td>
<td>Brush with hose reel option</td>
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<tr>
<td>24</td>
<td>End cap with quick coupling</td>
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<tr>
<td>25</td>
<td>Shut-off valve external pump filling connection</td>
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<td>26</td>
<td>Waterline filling connection</td>
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<tr>
<td>27</td>
<td>External pump filling connection</td>
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<tr>
<td>28</td>
<td>Rotating tank rinsing nozzles</td>
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<tr>
<td>29</td>
<td>Solution tank</td>
</tr>
<tr>
<td>30</td>
<td>Hydro injectors for agitation</td>
</tr>
<tr>
<td>31</td>
<td>Tank pressure sensor for digital tank-level indicator</td>
</tr>
<tr>
<td>32</td>
<td>非return check valve rinse tank</td>
</tr>
<tr>
<td>33</td>
<td>Tank deaeration</td>
</tr>
<tr>
<td>34</td>
<td>Basket strainer</td>
</tr>
<tr>
<td>35</td>
<td>Manual hand pump</td>
</tr>
<tr>
<td>36</td>
<td>Liquid level indicator solution tank</td>
</tr>
<tr>
<td>37</td>
<td>Liquid level indicator rinse tank</td>
</tr>
<tr>
<td>38</td>
<td>Rinsing head in filling opening with tenter</td>
</tr>
<tr>
<td>39</td>
<td>Spray chemical receptacle</td>
</tr>
<tr>
<td>40</td>
<td>Solution tank connection</td>
</tr>
<tr>
<td>41</td>
<td>Tank lid rinse tank</td>
</tr>
<tr>
<td>42</td>
<td>Tank deaeration</td>
</tr>
<tr>
<td>43</td>
<td>Tank lid with 400 mm diameter</td>
</tr>
<tr>
<td>44</td>
<td>Tank lid with 400 mm diameter</td>
</tr>
<tr>
<td>45</td>
<td>Protective clothing locker (used clothing)</td>
</tr>
<tr>
<td>46</td>
<td>Protective clothing locker (clean clothing)</td>
</tr>
<tr>
<td>47</td>
<td>Spray chemical receptacle</td>
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<td>48</td>
<td>Basket strainer</td>
</tr>
<tr>
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<td>Tank deaeration</td>
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<td>50</td>
<td>Tank lid rinse tank</td>
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<tr>
<td>51</td>
<td>Tank deaeration</td>
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<tr>
<td>52</td>
<td>Tank lid rinse tank</td>
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<tr>
<td>53</td>
<td>Tank deaeration</td>
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<tr>
<td>54</td>
<td>Tank lid rinse tank</td>
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<td>55</td>
<td>Tank lid rinse tank</td>
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<td>Tank lid rinse tank</td>
</tr>
<tr>
<td>60</td>
<td>Tank lid rinse tank</td>
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</tbody>
</table>

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The design of the polyethylene solution tank combines a low centre of gravity with a round shape and smooth surfaces. Dead corners are eliminated to ensure perfect agitation and complete cleaning. The deep sump and the sloping bottom provide complete emptying at all field conditions. Massive tank walls and large area frame support outstanding durability and strength.

Agitation is performed with high pressure water injectors at the bottom of the tank, with additional mixing from return flow of the pump. The injectors can be switched off manually or electrically by means of a 800 Series controller to prevent foaming and to empty the tank completely. With the Crawler control system it is even possible to automatically switch off the agitation before a programmed tank load (base on 800 Series).

### Innovative Solution Tank Design

- **Innovative Solution Tank Design**
- **Independent high pressure system allows tank design to prevent spillage during transport.**
- **Efficient polyethylene solution tank design**
- **Centralised operator station**
- **Maximum versatility – Easy to operate**
Heavy duty piston diaphragm pumps are self priming with high flow and pressure. A single stage can pump 200 litre capacity at standard. For larger booms or at high pressure, two pumps – each with 200 litre capacity – are available. The first pump is used for sprayer and the second for agitation. Both are used together to fill the booms. This increases filling capacity and reduces wear.

The Master and section valves are electrically controlled. Bi level valves are integrated into the frame at the front of the sprayer. If you have a double check and very versatile sprayer enabling to spray with both pressure or flow based regulation. When spraying based on flow, the controller will automatically switch to pressure based regulation when low flow rates occur.

The spray pressure is electronically controlled by a large diaphragm pressure regulator. This allows you to spray at both low and high application rates and results in a very constant and stable pressure. All John Deere 800 series pumps have an electronic spray rate controller to base. Spray controllers are the US series are available with pressure sensor, flow sensor or both. The 800 series is equipped with large suction filters and additional in-line section filters. The suction and pressure filters are placed together at the front of the sprayer can all be easily filled from ground level and are directly mixed with clean water.

A powerful injector, that provide thorough cleaning. For a complete wash-out of the spray area, there are two rotating nozzles mounted inside the tank that provide through cleaning.

When filling is completed, you can wash your hands and protective clothing with clean water from a separate dispenser. For larger farmer’s sprayers, a handwash tank can be installed for easy access to fill with clean water.

Enhancing convenience, efficiency, accuracy and safety

The large 60 litre chemical inducer tank cleaning and chemical inductor remain there until completely dissolved. The large suction filter with 30 mesh screen protects the nozzles from clogging and is for contaminated protective equipment, the other one for clean parts.

The large 60 litre chemical inducer tank can all be easily filled from ground level and are directly mixed with clean water. A powerful injector, that provide thorough cleaning. For a complete wash-out of the spray area, there are two rotating nozzles mounted inside the tank that provide through cleaning.

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A broad range of three dimensional spray booms brings a whole new level of strength, stability and accuracy to every spraying job. Two different boom types are available. A double folded boom from 18 to 30 metres with a transport width of only 2.55 metres and a triple folded boom from 24 to 40 metres with a 3.00 metre transport width. If your fields are widely dispersed you will appreciate the narrow 2.55 metre transport width of the double folding booms. The triple folding booms allow very wide booms, while still maintaining a compact machine. Trailing accuracy, stability and traversability remain as good as with the smaller machines with double folding booms.

Three dimensional spray booms give more uniform coverage over uneven terrain

**Spray boom suspension**

Rough fields and tough operating conditions can have a major impact on your spraying accuracy. John Deere booms feature a responsive suspension system that provides superior boom stability. The booms are suspended vertically, horizontally and in the yaw direction. The result is an extremely well balanced spray boom that provides an exceptionally level spraying platform. You gain a more even liquid distribution and improved spraying results. The central pendulum system features shock absorbers that dampen excessive boom swaying. The anti-yaw device has a horizontal degree of freedom which completely isolates the spray boom from machine movements in yaw direction. This boom suspension and anti-yaw dampening provides excellent performance under all field conditions, since it’s much less sensitive to boom adjustments, lane level, tractor coupling and other operating conditions.

**Boom folding**

Rough fields and tough operating conditions can have a major impact on your spraying accuracy. John Deere booms feature a responsive suspension system that provides superior boom stability. The booms are suspended vertically, horizontally and in the yaw direction. The result is an extremely well balanced spray boom that provides an exceptionally level spraying platform. You gain a more even liquid distribution and improved spraying results. The central pendulum system features shock absorbers that dampen excessive boom swaying. The anti-yaw device has a horizontal degree of freedom which completely isolates the spray boom from machine movements in yaw direction. This boom suspension and anti-yaw dampening provides excellent performance under all field conditions, since it’s much less sensitive to boom adjustments, lane level, tractor coupling and other operating conditions.

**Boom construction and suspension**

A responsive suspension system provides smooth horizontal and vertical movement. The John Deere spray boom design includes a central pendulum system featuring shock absorbers that reduce excessive boom swaying. The bend construction is designed to provide maximum durability and minimum maintenance. The boom suspension is equipped with a shock absorber to dampen the boom’s travel to provide a smooth ride during transport and spraying. The booms are supported by a roller on transport position to reduce friction. A transport hook mechanically locks the height adjustment when the boom is folded, thus reducing the risk of boom failure. A connecting rod between the right and left arms prevents one side from folding faster than the other.

**Three-dimensional spray booms**

John Deere three-dimensional spray booms bring a whole new level of strength, stability and accuracy to every spraying job. Two different boom types are available: a double folded boom from 18 to 30 metres with a transport width of only 2.55 metres and a triple folded boom from 24 to 40 metres with a 3.00 metre transport width. If your fields are widely dispersed you will appreciate the narrow 2.55 metre transport width of the double folding booms. The triple-folding booms allow very wide booms, while still maintaining a compact machine. Trailing accuracy, stability and manoeuvrability remain as good as with the smaller machines with double folding booms.

**Boom Trac automatic boom tilt & height control system**

Uneven ground and changing crop conditions both impact boom height and spraying accuracy. The John Deere Boom Trac automatic boom tilt and height control system helps to prevent uneven chemical application, while also helping the operator to maintain the optimal spray height. Blemishes seen in the orchard today are one result of the boom being tilted or out of level. The Boom Trac automatic boom tilt and height control system provides an electronic controller to adjust the boom height and angle until it is parallel to the canopy. As a result, spray application is more uniform, while the operator can concentrate on driving the tractor, without struggling to adjust the spray boom.

**Three-dimensional spray booms**

Three dimensional spray booms bring a whole new level of strength, stability and accuracy to every spraying job. Two different boom types are available. A double folded boom from 18 to 30 metres with a transport width of only 2.55 metres and a triple folded boom from 24 to 40 metres with a 3.00 metre transport width. If your fields are widely dispersed you will appreciate the narrow 2.55 metre transport width of the double folding booms. The triple-folding booms allow very wide booms, while still maintaining a compact machine. Trailing accuracy, stability and manoeuvrability remain as good as with the smaller machines with double folding booms.
Exceptional boom strength, reliability and versatility

The John Deere Trailed Sprayers

adapt easily to your specific spraying application needs. The sprayers can be equipped with single or multiple nozzle bodies. The end plugs and supply hoses of the stainless steel spray lines are fitted with quick-connect couplings. Running the sprayer is simple and fast.

Spray Boom design

As a further enhancement, variable geometry is available.

The spray boom arms can be raised or lowered independently of each other to spray any kind of sloping field.

Boom Construction and Design

• The 3-dimensional spray boom design for outstanding strength, durability and reliability
• All pivot points are equipped with self-adjusting ball and socket bearings to ensure that the boom will not sag even after many years of operation
• Liberal use of stainless steel components for long life, trouble-free performance

Spray Boom design

Breakaway protection is standard on every John Deere boom. Breakaway can be foreseen, backed away and even up when hitting an obstacle or touching the ground to prevent serious damage.

Special fertiliser nozzles are available to apply liquid fertiliser at different growth stages or sensitive crops without the risk of scorch. All fitting material on the sprayer is stainless steel or treated with a special coating. This sprayer is perfectly protected against the corrosive action of liquid fertilisers.

Spray Boom design

For added convenience, manual/automatic edge tips are available for spraying field boundaries or along watercourses. Special asymmetric edge nozzles are mounted 20 cm near the last nozzle and should be used when spraying at the boundaries of the field, with the last nozzle being closed and the edge nozzle in action. The operation of opening and closing of the edge tips can be performed manually or electrically from the cab.

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Nozzles and Bodies

A full range of different nozzles is available for all kinds of chemical as well as liquid fertiliser applications. For a complete overview of nozzles and application technology, please ask your John Deere dealer for our detailed SprayPartner catalogue.

For added convenience, manual/automatic edge tips are available for spraying field boundaries or along watercourses. Special asymmetric edge nozzles are mounted 20 cm near the last nozzle and should be used when spraying at the boundaries of the field, with the last nozzle being closed and the edge nozzle in action. The operation of opening and closing of the edge tips can be performed manually or electrically from the cab.

The booms are equipped with high quality stainless steel spray lines. The spray lines consist of dependable, trouble-free service.

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Drift. Tensions with much less susceptibility of you spray in a wider range of conditions at lower spray volumes allowing you to spray finer droplets, solution to the target. Droplet speed used with common application rates. You need a 10,000 litre sprayer with the TwinFluid technology gives you the capacity 10,000 litres sprayers with common application rates. With TwinFluid nozzles, or liquid are atomized and carry the solution to the target. Drift speed and entrainment are increased, allowing you to spray finer droplets, at lower spray volumes 200 – 500 l/h. Smaller droplets let you spray in a wider range of conditions with much less susceptibility of drift.

### Advantages of TwinFluid

- **Very high spraying capacity** Spraying with lower wind velocities remains less water needed to refill and transport. During the limited, ideal spraying hours of the day, you can spray instead of fill and transport.
- **Drift size easy to adjust** With one nozzle, you can easily adjust the droplet size from very coarse to very fine from the tractor cab without having to change the application rate. You have the flexibility to react to changing weather conditions “on-the-go”.
- **Advanced buffer zone management** Both oil-free and air-cooled buffer zone management gives you the TwinFluid droplet size decrease when spraying high field boundaries or along water courses to reduce drift and minimize environmental contamination. You can switch on-the-go to a much finer droplet spectrum when spraying in the field to improve chemical efficiency. Reduced drift.

Drplet size and spray volume are determined by both air and liquid pressure, air or pressure increases (with a constant liquid pressure), both spray volume and droplet size decrease. Air pressure increases (with a constant air pressure) both spray volume and droplet size increase. An accurate manual control of TwinFluid nozzle is therefore almost impossible.

For this purpose a TwinFluid control system is integrated into the Groundcontroller. 

**Advantages of TwinFluid**

- **Increased productivity**
- **Better crop penetration**
- **Less drift**
- **Adjustable droplet size on-the-go**
- **Very high spraying capacity**
- **Advanced buffer zone management**

### Advantages of TwinFluid

- **Improved coverage**
- **Greater flexibility to changing weather conditions**
- **Increased efficiency**

- **Continuous pressure recirculation**
- **Quick start when changing chemicals**
- **Easy wash-out of sprayer**
- **Virtually no blocked nozzles, even at low pressure**
- **Faster spraying**
- **No time wasted at the headland waiting for spray boom to dry**
- **Continuous pressure recirculation**
- **Spray mode**

### TwinFluid System

- **1. Solution Tank**
- **2. Rinse Tank**
- **3. Solution Pump**
- **4. Flow Sensor**
- **5. Pressure Sensor**
- **6. Spray/Circulate Valve**
- **7. Air Reservoir Tank**
- **8. Air Valve Manifold**
- **9. Air Stop Nozzles**
- **10. Suction Valve**

### Ringline recirculation

Continuous circulation with pneumatic nozzle shut-off. This system allows liquid recirculation at a high pressure, providing the operator with the advantage of selecting a master switch to turn it off. The pneumatically actuated system with re-injected air to each nozzle ensures on instant start and stop. These remarkable systems speed up and simplify cleaning and let you begin spraying immediately when entering the field. No need to wash chemicals at the headlands while waiting for the spraying system to charge. Simple, dependable and cost-effective, it’s just one more reason why John Deere trailed sprayer is your best choice for a more productive and cost-effective application.

### System advantages:

- **Quick start when changing chemicals**
- **No time wasted at the headland waiting for spray boom to dry**
- **Faster spraying**
- **Easy wash-out of sprayer**
- **Saves chemical, time and money and possibly no blocked nozzles, even at low pressure**
- **Continuous pressure recirculation**
- **Spray mode**

### TwinFluid System for precise, low volume application

**Droplet size greatly influences crop coverage and chemical efficiency.**

When sprayed without wind, the actual spray coverage can be determined. The controller will recommend the operator the optimal droplet size and even rate when there is too much wind to spray.

Think of the time and chemicals you waste when you clean out the sprayer … or when you start spraying in a field for the first time. When filling the sprayer with chemical, after rinsing out, the clear water has to be purged from the spray lines on the headland before the chemical can reach every point. The headland can get an excessive dose of chemical with burnt patches and resulting environmental contamination. The first part of the field is often not effectively treated, which can be seen later with triangles of weeds or diseases occurring in the field. That’s why we developed ringline recirculation as well as the abrasive pressure-optimised continuous circulation with pneumatic nozzle shut-off. These remarkable systems speed up and simplify cleaning and let you begin spraying immediately when starting to enter the field.
### Specifications

#### Specifications

### Sprayboom Sizes*

<table>
<thead>
<tr>
<th>SPRAYBOOM NO. OF SECTIONS</th>
<th>SECTION WIDTHS (M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 / 12 m</td>
<td>6 3-3-3-3-3-3</td>
</tr>
<tr>
<td>20 / 12 m</td>
<td>5 4-4-4-4-4-4</td>
</tr>
<tr>
<td>21 / 12 m</td>
<td>5 / 7 4,5-4,5-3-4,5 / 3-3-3-3-3-3-3</td>
</tr>
<tr>
<td>24 / 12 m</td>
<td>4 / 6 / 8 6-6-6-6 / 4-4-4-4-4-4 / 3-3-3-3-3-3-3-3</td>
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<tr>
<td>24 / 15 m</td>
<td>7 4,5-3-3-3-3-3-4,5</td>
</tr>
<tr>
<td>27 / 15 m</td>
<td>9 3-3-3-3-3-3-3-3-3</td>
</tr>
<tr>
<td>28 / 14 m</td>
<td>7 / 8 4-4-4-4-4-4-4-4 / 3-4-4-3-3-4-4-3</td>
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<tr>
<td>30 / 15 m</td>
<td>9 3-4,5-3-3-3-3-3-4,5-3</td>
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**Triple-folding booms**

<table>
<thead>
<tr>
<th>SPRAYBOOM NO. OF SECTIONS</th>
<th>SECTION WIDTHS (M)</th>
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</thead>
<tbody>
<tr>
<td>24 / 18 m</td>
<td>8 3-3-3-3-3-3-3-3</td>
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<td>27 / 18 m</td>
<td>7 4,5-4,5-3-3-3-4,5-4,5</td>
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<td>27 / 21 m</td>
<td>9 3-3-3-3-3-3-3-3-3</td>
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<td>28 / 20 m</td>
<td>7 4-4-4-4-4-4-4</td>
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<td>30 / 21 m</td>
<td>9 4,5-3-3-3-3-3-3-3-4,5</td>
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<tr>
<td>32 / 21 m</td>
<td>8 4-4-4-4-4-4-4-4-4</td>
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<tr>
<td>33 / 21 m</td>
<td>9 / 11 3-3-4,5-4,5-3-4,5-3-3 / 3-3-3-3-3-3-3-3-3-3-3-3-3-3</td>
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<tr>
<td>36 / 24 m</td>
<td>9 / 12 4-4-4-4-4-4-4-4-4-4 / 3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3</td>
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<tr>
<td>39 / 27 m</td>
<td>9 / 13 4,5-4,5-4,5-4,5-3-4,5-4,5-4,5-4,5 / 3-3-3-3-3-3-3-3-3-3-3-3-3</td>
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<td>40 / 27 m**</td>
<td>13 3,5-3-3-3-3-3-3-3-3-3-3-3,5</td>
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</table>

* Not all options are available in all countries. ** Only available for 840i

#### Technical Specifications

<table>
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<tr>
<th>MODEL</th>
<th>832</th>
<th>832i</th>
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<th>840i</th>
<th>TF 840</th>
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</thead>
<tbody>
<tr>
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<td>3200 L</td>
<td>3200 L</td>
<td>3200 L</td>
<td>4000 L</td>
<td>4000 L</td>
<td>4000 L</td>
</tr>
<tr>
<td>Real tank volume</td>
<td>3360 L</td>
<td>3360 L</td>
<td>3360 L</td>
<td>4200 L</td>
<td>4200 L</td>
<td>4200 L</td>
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<tr>
<td>Rinse tank volume</td>
<td>400 L</td>
<td>400 L</td>
<td>400 L</td>
<td>400 L</td>
<td>400 L</td>
<td>400 L</td>
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<tr>
<td>Hand wash tank</td>
<td>20 L</td>
<td>20 L</td>
<td>20 L</td>
<td>20 L</td>
<td>20 L</td>
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</tr>
<tr>
<td>Pump capacity standard</td>
<td>280 L/min</td>
<td>280 L/min</td>
<td>280 L/min</td>
<td>280 L/min</td>
<td>280 L/min</td>
<td>280 L/min</td>
</tr>
<tr>
<td>Pump capacity optional</td>
<td>2 x 280 L/min</td>
<td>2 x 280 L/min</td>
<td>2 x 280 L/min</td>
<td>2 x 280 L/min</td>
<td>2 x 280 L/min</td>
<td>2 x 280 L/min</td>
</tr>
</tbody>
</table>

#### Sprayboom widths

- **Double-folding boom**: 18 – 30 m
- **Triple-folding boom**: 24 – 36 m

#### Track width

- 150/180 cm, fixed axle
- 150/200 cm, sliding axle
- 172/225 cm, sliding axle

#### Ground clearance u. axle

- 75 cm

#### Boom height

- 50 – 255 cm

* Dimensions are approximate and based on sprayers with 270/95R48” tires

#### Hydraulic Tractor Requirements

**BOOM FUNCTIONS EL-4 WITH EHB-2 EHC-2 WITH GS2**

- Electro-hydraulic boom folding, height adjustment, boom tilt, and independent folding boom tips left/right*
- 1 SVC + free return

**BOOM FUNCTIONS EL-4 WITH EHB-2 EHC-2 WITH GS2**

- Electro-hydraulic boom folding, height adjustment, boom tilt, and independent folding boom tips left/right and variable geometry*
- 1 SVC + free return

* As option an onboard hydraulic system is available as well (PTO driven).

#### Weights

<table>
<thead>
<tr>
<th>MODEL</th>
<th>832</th>
<th>832i</th>
<th>840</th>
<th>840i</th>
<th>TF 840</th>
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</thead>
<tbody>
<tr>
<td>Total weight empty</td>
<td>3400 kg</td>
<td>3400 kg</td>
<td>3460 kg</td>
<td>3460 kg</td>
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<td>Total weight full</td>
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<td>7880 kg</td>
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</table>

All weights are approximate with base equipment and 24 m boom

* Specifications and design subject to change without notice.

#### Measurements

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<th>BASE SPRAYER</th>
<th>SPRAYBOOM</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<tr>
<td>832/840 18/12 m</td>
<td>583 cm</td>
<td>387 cm</td>
<td>237 cm</td>
<td>364 cm</td>
<td>255 cm</td>
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<tr>
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<td>387 cm</td>
<td>250 cm</td>
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<td>255 cm</td>
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</tr>
<tr>
<td>832/840 27/15 m</td>
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<tr>
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* Dimensions are approximate and based on sprayers with 270/95R48” tyres
When it's time to upgrade your sprayer, you'll be ahead when you invest in a new John Deere trailed sprayer. You'll enjoy outstanding convenience, superior spray accuracy and genuine John Deere quality and reliability – the same traits that make John Deere tractors, combines and forage harvesters the preferred choice. You also get access to an exceptional dealer organisation with John Deere trained personnel who know every part of your sprayer. They can troubleshoot a problem and have the tools to fix it quickly – because they understand the importance of timely crop application. And they are ready to do whatever is necessary to keep you running at maximum efficiency. You would probably pay extra for service this good … but John Deere offers it as a standard feature in every product. See your John Deere dealer, today!

All John Deere dealers are linked in a computerised parts inventory system. Parts are stocked for immediate retrieval; special-order parts can be delivered quickly from central parts warehouses (usually within 24 hours). Dedicated delivery is on hand, 7 days a week during the spraying season.

Dealer support

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