

# 7J Series

7200J/7215J/7230J



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## EQUIPMENT DEVELOPED FOR HIGHLY PRODUCTIVE AND EFFICIENT FARMING

LEARN MORE ABOUT THE BEST FEATURES OF OUR TRACTORS

### POWER AND TECHNOLOGY

- Power from 200 to 230 hp, in three different models.
- New power ratings and increased technology to make your business more productive.
- Excellent performance for heavy work, with low fuel consumption.
- Excellent performance, from transport to soil preparation.
- Technology features included as standard: John Deere Engine with Common Rail electronic injection; two transmission options: PowrQuad Plus™ and AutoQuad™
- AutoQuad™: changes gear automatically, in accordance with engine load and the front axle option with Triple Link Suspension (TLS).

### FRONT AXLE TLS

The 7J Tractors can be equipped with the optional front Triple Link Suspension (TLS) axle, which has this exclusive suspension system. This is an innovative system, which provides productivity gains of up to 8%, in comparison with a rigid axle. It consists of hydro-pneumatic cylinders with nitrogen accumulators and three mounting points, that significantly increase the tractor's traction capacity.

### HOW 7J TRACTORS ARE DIFFERENT

- The Factory-installed Implement Management System (IMS) makes it possible to manage up to five commands from the tractor with a simple configuration

- Gear shifting that enables the operator to focus on operating the equipment well, thus optimizing performance
- Differential lock
- Front traction
- Hydraulic lift
- Power Take Off (PTO)

- Front axle with Triple Link Suspension (TLS)
- Optional active seating suspension
- Premium light package: LED working lights



## FARM MANAGEMENT SOLUTIONS

By using Precision Farming equipment, it is possible to achieve greater operating efficiency by reducing operating overlap and failures, optimizing land use and reducing the costs of fuel and consumables. 7J Tractors leave the factory AutoTrac ready, which assists the operator in driving the tractor during farming operations, enabling the operator to manage other tasks. On request, 7J tractors can be equipped with the StarFire™ 6000 receiver, with the option of SF3 or TRK signals.



### NEW SF6000 RECEIVER

The SF6000 Receiver receives signals from two satellite groups - GPS and GLONASS - which increases accuracy and signal availability, while at the same time enabling various corrections.



### GS3 DISPLAY

The GS3 2630 Monitor controls all of the functions of John Deere Agricultural Management Solutions (AMS).

### JDLINK™

All of the 7J series tractors are JDLink™ capable. MTC hardware is not included. On request, 7J Series Tractors can have the JDLink™ installed in the factory. This is a tool that enables the machine to be monitored remotely, by computer, cellphone and/or tablet.

#### Main functions OPTIMIZATION OF MACHINE DATA

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The corner post display will display information such as speed, engine RPM, selected gear and the status of the main components, such as the PTO, differential lock and front traction, among others.



## COMMANDVIEW™ CAB

7J Series Tractors offers the best in class operators cab. The spacious cab is comfortable, functional, safe and ergonomically designed environment for the operator, ensuring higher productivity during the workday.

### Some features of the CommandView™ cab:

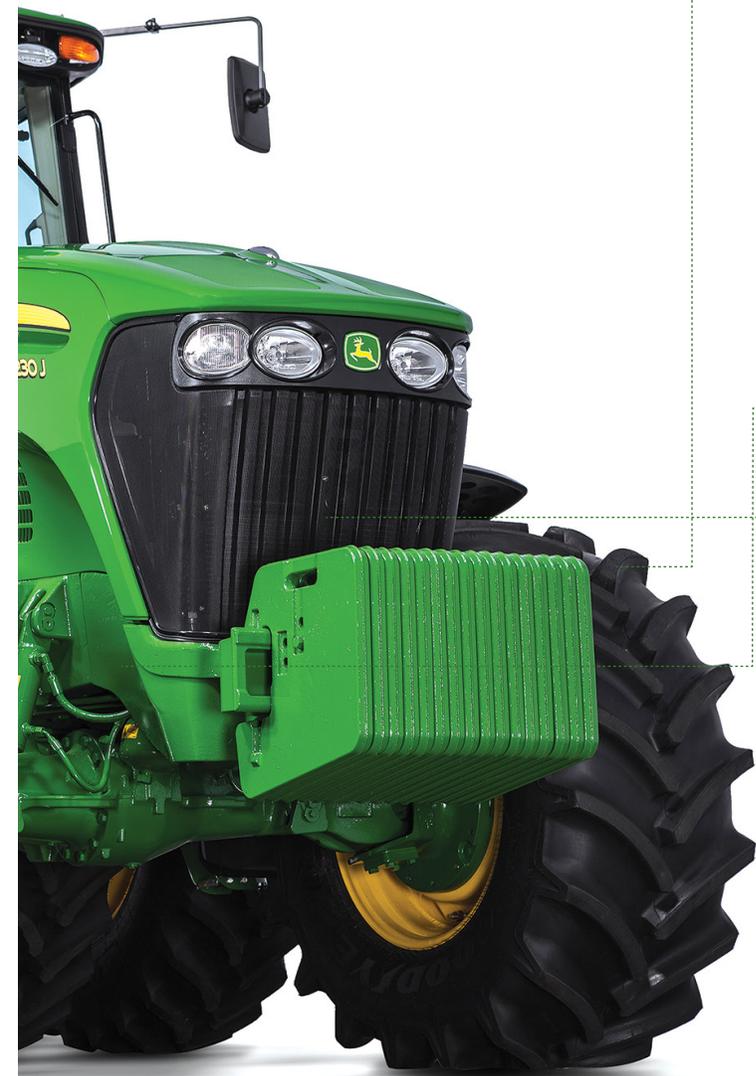
- The right hand display column displays key information to the operator.
- Optimum visibility is achieved with large windows.
- Air suspension seat, offers up to 30° of rotation for greater comfort and easy viewing of the implement.
- The CommandCenter™ console is ergonomically designed and located on the right hand side panel for greater operator comfort.

## COMMANDCENTER™

The CommandCenter™ controls various tractor systems, enabling the operator to:

- configure and monitor the Hydraulic Lifting System;
- set the maximum rpm in the FieldCruise™ system;
- program the Implement Management System (IMS), which enables the tractor to be maneuvered at the touch of a button;
- monitor speed, ha/h, l/h, l/ha, range, PTO speed and other data.





- **POWRQUAD™ OR AUTOQUAD™ TRANSMISSION**

The 7J Series models are standard fitted with PowrQuad™ Plus transmission, with 16 forward and 16 reverse speeds. This transmission allows gears to be changed without using the clutch and without interrupting power to the wheels, providing greater efficiency during operation.

The ranges and gears are selected using a single lever, which is easy and practical. In addition, the transmission has the Speed Matching™ system, which automatically locates the best gear when the operator changes the range, avoiding abrupt changes in speed and ensuring smooth movement. There is the option of fitting the AutoQuad™ transmission, which has all of the benefits of PowrQuad™ Plus, while also changing gears automatically in accordance with the engine load conditions, ensuring, at all times, the greatest fuel efficiency or greatest power, as selected by the operator.

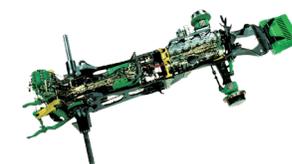


*The reverser, on the left side of the steering wheel, allows the forward/reverse direction to be switched without using the clutch, enabling agile maneuvering.*



- **MODULAR CHASSIS**

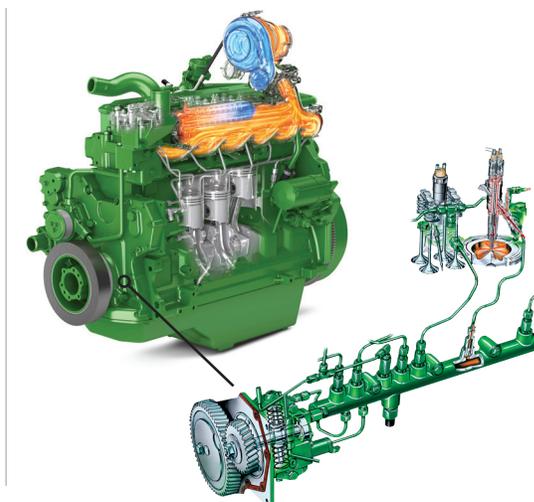
The 7J Series Tractors are mounted on a modular chassis, which absorbs torsion forces and allows the engine and the cabin to be mounted on rubber shock absorbers, providing excellent isolation from vibrations and noise. In addition, the chassis allows easy access to several components, making maintenance simpler and quicker.



- **JOHN DEERE ENGINE**

The John Deere 7J series Engines have been designed exclusively for agricultural applications. The John Deere PowerTech™ engine uses innovative technology to run without the need of additional fluids. The torque curve has been designed to give the tractor flexibility and allow rpm to recover quickly under increasing load. The three models have an intercooler turbocharger, electronic accelerator and a cylinder head with four valves per cylinder. The Turbo charger fitted with a Waste-Gate valve provides better performance, at both high and low rpm

**Injection System:** High Pressure Common Rail Electronic Injection System ensures reliability, durability and efficiency.



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## ACTIVE SEAT™



Combined with air suspension and electro-hydraulic technology, ActiveSeat™ reduces vertical seat movements by up to 90%, providing better ergonomics and comfort to the operator, improving quality and safety during operations.

## TLS FRONT AXLE (TRIPLE LINK SUSPENSION)

The TLS axle is optional to the standard and 3 meter wide MFWD axles. This innovative front axle is suspended by use of hydraulic cylinders. This new front axle provides an increase of 8% in productivity because it prevents lurching, thus increasing the capacity to transfer power to the ground, while also increasing operator comfort.



## LIGHTING PACKAGES

New lighting packages for the 7J Series, providing 360° illumination with front, rear and side lights on the top of the cabin. The optional front and rear LED lights, provide a significant increase in lighting coverage and the durability of the lamps and the components of the electrical system. The versatility of lighting configurations can meet the most demanding applications and ensure maximum productivity. Lighting packages offered will ensure that you can benefit by using the extended working windows, with higher productivity and precision.





## 7J SERIES SUGARCANE CONFIGURED TRACTOR

John Deere was the first company to provide a reliable solution in order to avoid crushing sugarcane stalks spaced at 1.4 and 1.5 m. The 3 meter axle option enables wheel-to-wheel spacing of 2.8 or 3 m, so that the tractor can avoid trampling the stalks, allowing maximum regrowth and producing better yield results. 7J Series Tractors can therefore be configured as sugarcane tractors by selection the 3 meter front axle option. This option does not stop the tractors from doing heavy work, such as tillage or planting, as the rear wheel spacing can simply be changed to 2.6 m. In addition to the front axle with 3 meter wheel-to-wheel spacing, other characteristics complement the John Deere Sugarcane Tractors.

- Dual Line Pneumatic trailer brake systems (optional) can be integrated for towing, with actuation integrated to the tractor brake.
- Center closed hydraulic system, with 121 L/min pump as standard for the 7200J and 7215J or optionally a 174 L/min piston pump can be ordered. The 7230J comes standard with 174 L/min pump.
- Three or optional four selective control valves can be selected.
- Tractor with integrated AutoTrac™ can be ordered optional.
- FieldCruise™ System.



## FIELDCRUISE™ SYSTEM

FieldCruise™ is a system which aid and improve fuel economy in operations that do not demand maximum engine power. This feature allows for increased efficiency and an optimal powered tractor in lighter operations, providing more flexibility.

- FieldCruise™ makes it possible to limit engine rpm in operations that do not require full power.
- It provides great fuel savings and increases engine durability.
- The operator can set the engine rpm limit for desired application.
- It is easy to engage and disengage.



Tractor with conventional MFWD axle 7J Series Tractor in sugarcane applications with a 3 m axle



Pneumatic brake for towing, installed in the factory



Front axle, with wheel-to-wheel spacing of up to 3 m

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## COMPATIBLE WITH JOHN DEERE 1100 AND 2100 PLANTERS

7J Tractor + 1100 and 2100 Planters = Recommended solution for maximum planting productivity and accuracy.



Model	Number of lines x row spacing	7200J	7215J	7230J
1107 DF	14 x 45	H	H	H
1109 DF	18 x 45	D	H/D	H/D
2113	13 x 45	H	H	H
2115	15 x 45	D	H/D	H/D
2117	17 x 45	D	H/D	H/D

DF = DualFlex      H = Tine opener      D = Disc opener

Note: the power required for the planters vary, in accordance with the number of rows, planting speed required, the topography of the field, soil type/ conditions, depth of planting and type of furrow opener (tine or disc) used.

### Power required per row unit

Tine: ~ 14 hp (10.45kW) (calculate hp (kW)/cm penetrated in the soil) x number of lines.

Disc: ~10 hp (7.45kW)

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<b>Technical specifications</b>			
Engine power at nominal rpm (hp/kW)	200 (147)	215 (158)	230 (169)
Engine power (hp/kW) at 1900 rpm	220 (162)	237 (174)	253 (186)
PTO power at nominal engine rpm - kW/hp	171 (126)	184 (135)	196 (144)
*Nominal speed = 2100 rpm			
<b>Engine</b>			
Brand / model	John Deere PowerTech™	John Deere PowerTech™	John Deere PowerTech™
Engine Type	Diesel, 6 in-line cylinders 24 valves	Diesel, 6 in-line cylinders 24 valves	Diesel, 6 in-line cylinders 24 valves
Speed at maximum torque - rpm	1.550	1.550	1.550
Maximum speed - rpm	2.200	2.200	2.200
Torque reserve - %	36%	36%	33%
Number of cylinders	6	6	6
Engine Capacity - L	6,8	6,8	6,8
Aspiration type	Turbo intercooled air-air	Turbo intercooled air-air	Turbo intercooled air-air
Standard	Similar to 97/68/EC or SAE J1995	Similar to 97/68/EC or SAE J1995	Similar to 97/68/EC or SAE J1995
<b>Fuel system</b>			
Injection System	Electronic controlled High pressure Common Rail	Electronic controlled High pressure Common Rail	Electronic controlled High pressure Common Rail
Fuel tank capacity - L	390	390	390
<b>Transmission</b>			
PowrQuad™ Plus Transmission	Standard	Standard	Standard
AutoQuad™ Transmission	Available (optional)	Available (optional)	Available (optional)
PowrQuad™ Plus Gears	16F / 16R	16F / 16R	16F / 16R
AutoQuad™ Gears	16F / 16R	16F / 16R	16F / 16R
<b>Front axle</b>			
Heavy Duty 4x4 Front Axle	Standard	Standard	Standard
Heavy Duty 4x4 Front Axle for wheel-to-wheel spacing of 2.8 or 3 m	Optional	Optional	Optional
Heavy Duty Front Axle with TLS™ suspension	Optional	Optional	Optional
<b>Rear axle type</b>			
Final drive	Internally mounted planetary gear type	Internally mounted planetary gear type	Internally mounted planetary gear type
Differential lock	Electro-hydraulic activation	Electro-hydraulic activation	Electro-hydraulic activation
Type of axle end	Flanged type axle end (standard)	Flanged type axle end (standard)	Flanged type axle end (standard)
<b>Rear axle type</b>			
Final drive	Internally mounted planetary gear type	Internally mounted planetary gear type	Internally mounted planetary gear type
Differential lock	Electro-hydraulic activation	Electro-hydraulic activation	Electro-hydraulic activation
Type of axle end	Flanged type axle end (standard)	Flanged type axle end (standard)	Flanged type axle end (standard)
<b>Brakes</b>			
Service brake	Wet-disc brakes, with self-adjusting hydraulics	Wet-disc brakes, with self-adjusting hydraulics	Wet-disc brakes, with self-adjusting hydraulics
Transmission brake	Transmission locked by the P gear lever	Transmission locked by the P gear lever	Transmission locked by the P gear lever
External trailer brake	Two line, Pneumatic Air (Optional)	Two line, Pneumatic Air (Optional)	Two line, Pneumatic Air (Optional)

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<b>Power Take Off (PTO)</b>			
Type	Independent with electro-hydraulic activation	Independent with electro-hydraulic activation	Independent with electro-hydraulic activation
Nominal PTO speed - rpm	540/1000	540/1000	540/1000
Engine speed at nominal PTO speed - rpm	1950	1950	1950
<b>Hydraulic system</b>			
Hydraulic pump type	Axial piston pump	Axial piston pump	Axial piston pump
Hydraulic pump maximum flow rate - L/min	121 standard (174L/min optional)	121 standard (174L/min optional)	121 standard (174L/min optional)
Maximum working pressure - bar	210	210	210
Hydraulic hitch - category	III - 3N/3	III - 3N/3	III - 3N/3
Hitch lift maximum capacity (@ 610 mm behind the hitch ball)	4600kg standard or 6350 kg (optional)	4600kg standard or 6350 kg (optional)	4600kg standard or 6350 kg (optional)
Hitch control	Electronic, with sensors on the lower arms	Electronic, with sensors on the lower arms	Electronic, with sensors on the lower arms
Number of SCV's	3 or 4	3 or 4	3 or 4
Maximum SCV flow - L/min	114	114	114
<b>Electrical system</b>			
Alternator - Amps	200	200	200
Voltage - Volts	12	12	12
Battery - Ah	2 x 100	2 x 100	2 x 100
<b>Drawbar</b>			
Option 1	Category 3 standard	Category 3 standard	Category 3 standard
Option 2	Heavy Duty Category 3 (optional)	Heavy Duty Category 3 (optional)	Heavy Duty Category 3 (optional)
<b>Wheels and Tires</b>			
Option 1	16.9-30 R1 and 20.8-42 R1	16.9-30 R1 and 20.8-42 R1	16.9-30 R1 and 20.8-42 R1
Option 2	16.9R30 R2 and 20.8R42 R2	16.9R30 R2 and 20.8R42 R2	16.9R30 R2 and 20.8R42 R2
Option 3	600/65R28 R1 and 710/70 R38 R1	600/65R28 R1 and 710/70 R38 R1	600/65R28 R1 and 710/70 R38 R1
Option 4	16.9R30 R1 and 20.8R42 R1	16.9R30 R1 and 20.8R42 R1	16.9R30 R1 and 20.8R42 R1
Option 5	600/65 R28 R1 and 20.8R42 R1	600/65 R28 R1 and 20.8R42 R1	600/65 R28 R1 and 20.8R42 R1
Option 6	18.4-26 R1 Forestry and 30.5L-32 R1 Forestry	18.4-26 R1 Forestry and 30.5L-32 R1 Forestry	18.4-26 R1 Forestry and 30.5L-32 R1 Forestry
<b>Weight - Kg</b>			
Maximum ballasted weight	11400	11800	12650
Average shipping weight ballasted	9150	9150	9150
<b>Dimensions - mm</b>			
Wheelbase	2860	2860	2860
Total length	5824	5824	5824
Total width with short axle	2437	2437	2437
Total width with long axle	2807	2807	2807
Maximum height	3170	3170	3170
Clearance at center of the front axle	530	530	530
Drawbar clearance	517	517	517





Sub Saharan Africa - CQP13392

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Specifications are subject to change without prior notice. Update in June 2018.  
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