

# 7J Series

John Deere Tractors



# John Deere 7J Series Tractors

Power & technology to improve your business.

7225J  
225 HP

7185J  
185 HP

7205J  
205 HP



## AMS – GreenStar™ Solutions

GreenStar is the John Deere precision farming system that offers significant cost reductions due to greater precision in operations, increased efficiency of applications (such as fertilizers, fungicides, herbicides and others) and gains in productivity. Many farmers are already using this technology which pays for itself in no time. John Deere GreenStar is a suite of integrated solutions that provide efficient and profitable results, better use of all mechanized systems and ease of operation.

The 7185J, 7205J and 7225J models can leave the factory equipped with integrated AutoTrac™, with different options for signal correction, according to the needs of each application.

Available accuracy levels

- SF1  $\pm 30$  cm;
- SF2  $\pm 10$  cm;
- RTK \*  $\pm 2$  cm

\* Requires a base station for signal correction.

John Deere AutoTrac is an option that will help reduce your production costs..



StarFire 3000 Receiver



GS3 Display





### CommandView Cab

The CommandView cab on the John Deere 7J Series tractors is best-in-class. The cab has a spacious, comfortable, functional, safe and ergonomic environment for the operator, ensuring higher productivity during the workday.

Some features of the CommandView Cab:

- monitor in the front right column displays key information to the operator;
- large glass area, providing optimum visibility in all directions;
- Air suspension seat with up to 30 ° swivel for comfort and easy viewing of the implement;
- side console ergonomically placing the main controls and the CommandCenter onboard computer together.



Column mounted monitor displays information such as speed, engine RPM and status of selected main components for PTO, differential lock, front wheel drive and others.

### CommandCenter

The CommandCenter operates on several tractor systems allowing the operator to:

- configure and monitor the hydraulic lifting system;
- set the maximum engine rpm through the FieldCruise system;
- program the work and transport lights;
- program the IMS - Implement Management System - that allows multiple operations with the touch of a button;
- monitor speed data, hectares / hour, liters / hour l / ha, autonomy, PTO speed and much more.



### Operational performance

The 392 liter fuel tank allows for long working hours with few refuelling stops.



### PowrQuad Plus or AutoQuad transmission

All the 7J models are equipped with PowrQuad Plus transmissions, with 16 forward x 16 rear speeds. This transmission allows gear shifting without using the clutch, with uninterrupted power supply to the wheels, resulting in higher efficiency during operation. The groups and gears are selected with a single handle in a practical, easy way. Furthermore, this system has a speed matching system, which automatically finds the best gear when the operator changes the group, ensuring a smooth ride.

The 7225J can be optionally equipped with the AutoQuad transmission, that offers all the benefits of PowrQuad Plus, plus automatic gear shifting according to engine conditions, always ensuring better fuel economy or higher power, according to the operator's choice.



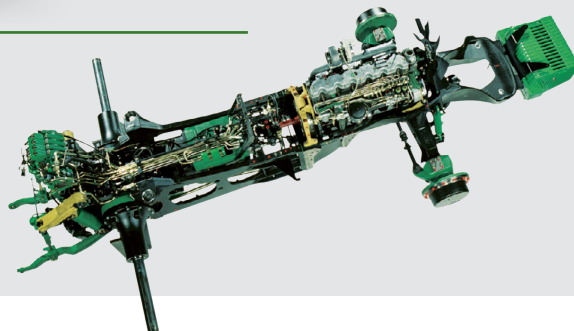
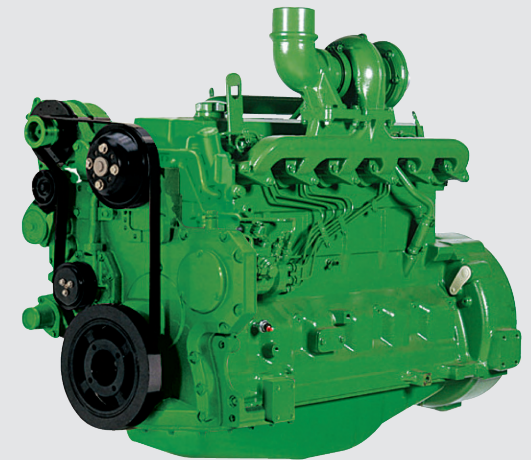
The reverser on the left side of the steering wheel enables you to switch the forward/reverse movement without using the clutch, ensuring agile manoeuvrability.



### John Deere Engine

The engine of the John Deere 7J Tractor Series is designed exclusively for agricultural operations. Its torque curve is designed to provide excellent use of the engine power and to allow fast engine rotation recovery in situations of increased load.

The engines are turbocharged with intercooler and electronic accelerator. The 7225J model also has four valves per cylinder, and a Common Rail electronic fuel injection system.



### Modular Chassis

The 7J Series tractors are built on a modular frame that absorbs twisting. The engine and cab are mounted on shock absorbing rubbers, ensuring excellent vibration and noise isolation.

Furthermore, the frame allows easy access to various components, providing simpler and faster maintenance.



## 7J Series – Sugar Cane Version

John Deere was the first company to provide a reliable solution to the problem of trampling on the cane, when planted at 1.4 to 1.5 meter spacing. Now with a choice of axle tread adjustments from 2.8 to 3 meters, tractors do not ride over the cane anymore, allowing the crop to generate better results.

All the 7J tractor models have the option of being configured as sugarcane tractors. This does not prohibit the tractor from performing heavy work, such as tillage or planting, but only requires the rear axle tread to be reduced to 2.6 m.

It's not only the 3 meter tread axle configuration on the 7J sugarcane tractors, other features are also available:

- air compressed trailer brake, with integrated brake tractor actuation (optional)
- hydraulic system with piston pump of 121 L / min or 174 L / min (optional)
- 4 SCVs;
- AutoTrac (optional)
- FieldCruise system.



Pneumatic trailer air brake is factory installed.



### FieldCruise System

The 7J Series configured with 3 meters axles, pneumatic brake equipment and FieldCruise is perfect for trans-shipment of sugarcane:

- FieldCruise limits the engine rpm in operations that do not require all the engine power, providing great fuel economy and higher engine durability;
- The rpm limit is selected by the operator;
- Easy to enable or disable



Tractor with front axle tread width up to 3 m.



Tractor with conventional axle. | 7J Series sugarcane version Tractor with 3 m axles



# John Deere 7J Series Tractors - Specifications

Technical Specifications	7185J	7205J	7225J			
Rated speed @ maximum RPM - kW /hp	136 kW / 185 hp	150,8 kW / 205 hp	165,6 kW / 225 hp			
Rated PTO @ maximum speed - kW /hp	116 kW / 157 hp	128 kW / 174 hp	141 kW / 191 hp			
<b>Engine:</b>						
Manufacturer / Model	John Deere / PowerTech 6068 H	John Deere / PowerTech 6068 H	John Deere / PowerTech 6068 H			
Maximum torque - Nm@RPM	1400	1400	1600			
Maximum torque - Nm	826	918	1023			
Torque máximo - Nm	2100	2100	2100			
Torque reserve - %	33	34	36			
Number of Cylinders			6			
Cc - litres			6,8 litres			
Aspiration			Turbocharged - Intercooler			
Engine power norm			SAE J 1995			
<b>Fuel System:</b>						
Fuel Injection	Mechanical Injection pump with electronic governor	Mechanical Injection pump with electronic governor	Common Rail electronic fuel injection			
Fuel tank capacity		392 litres				
<b>Clutch:</b>						
Type			Wet discs - PermaClutch			
Actuation			Hydraulic self-adjustable			
Number of discs			5			
Diameter of discs - mm			225 mm			
<b>Transmission:</b>						
Type - speed	PowrQuad Plus (standard) or AutoQuad automatic shift (optional) - 16 forward, 16 reverse gears					
Speeds with maximum engine RPM	Km/h - forward	Km/h - reverse	Km/h - forward	Km/h - reverse	Km/h - forward	Km/h - reverse
A1	2.65	2.77	2.65	2.77	2.65	2.77
A2	3.19	3.33	3.19	3.33	3.19	3.33
A3	3.82	3.99	3.82	3.99	3.82	3.99
A4	4.68	4.89	4.68	4.89	4.68	4.89
B1	5.62	5.86	5.62	5.86	5.62	5.86
B2	6.77	7.06	6.77	7.06	6.77	7.06
B3	8.1	8.45	8.1	8.45	8.1	8.45
B4	9.93	10.38	9.93	10.38	9.93	10.38
C1	8.94	9.33	8.94	9.33	8.94	9.33
C2	10.77	11.23	10.77	11.23	10.77	11.23
C3	12.89	13.46	12.89	13.46	12.89	13.46
C4	15.8	16.48	15.8	16.48	15.8	16.48
D1	16.55	17.27	16.55	17.27	16.55	17.27
D2	19.93	20.8	19.93	20.8	19.93	20.8
D3	23.87	24.91	23.87	24.91	23.87	24.91
D4	29.25	30.52	29.25	30.52	29.25	30.52
	with 20.8-42 R1 rear tyres		with 20.8-42 R1 rear tyres		with 20.8-42 R1 rear tyres	
<b>Rear axle:</b>						
Final Drive			Inboard planetary			
Differential			Electro-hydraulic actuation			
Shaft end			Rack & Pinion			
<b>Front axle MFWD:</b>						
Standard Front Axle	John Deere STD axle	John Deere Heavy Duty axle	John Deere Heavy Duty axle			
Optional Front Axle		John Deere Heavy Duty axle for 2,8 - 3,0 m tread				
Actuation			Electro-hydraulic			
Differential			Auto-blocking			
<b>Brakes:</b>						
Service brakes			Wet discs, hydraulic actuation, self-adjustable			
parking brakes			Transmission block through "P"			
Pneumatic trailer brakes			Optional			

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<b>Electrical System:</b>			
Voltage - V			12
Alternator - A			120
Battery- Ah			2x 100
<b>PTO</b>			
Type		Independente com acionamento eletro-hidráulico	
Maximum PTO speed - rpm			540/1000
Engine speed @ maximum PTO RPM - rpm			1950/1950
<b>Hydraulic System:</b>			
Type of hydraulic pump		Axial pistons 45cm <sup>3</sup> (standard) or 63cm <sup>3</sup> (optional)	
Maximum pump flow - L/min		121 L/min (standard) or 174 L/min (optional)	
Pressão máxima de trabalho - bar			210
Hitch Category			III - 3/3N
Maximum lift capacity - kgf	7560 kgf or 10440 kgf (optional)	7560 kgf or 10440 kgf (optional)	10440 kgf
Lift capacity 610mm from hitch - kgf	4600 kgf or 6350 kgf (optional)	4600 kgf or 6350 kgf (optional)	6350 kgf
3-Point Hitch system controls		Electronic, with lower link sensors	
Number of SCV's			2 - 4
SCV maximum flow - L/min		114 L/min (std 45 cm <sup>3</sup> ) / 170 L/min (opt 63 cm <sup>3</sup> )	
Steering system		Hydrostatic "Load Sensing", with priority pump	
<b>Tyres:</b>			
Option 01		16.9-30 R1 e 20.8-42 R1 duplo	
Option 02		16.9R30 R2 e 20.8R42 R2 duplo	
Option 03		600/65R28 R1W e 710/70R38 R1W	
Option 04		600/60R30.5 R1W e 850/60R38 R1W TRLBG	
Option 05		18.4-26 R1 e 30.5L-32 R1	
Option 06		480/70R28 R1 e 800/65R32 R1	
<b>Weights:</b>			
Maximum weight ballasted	9900 kg	10900 kg	12400 kg
Average shipping weight - CAB	8100 kg	8100 kg	8100 kg
		with 20.8-42 R1 rear tyres	
<b>Dimensions:</b>			
Wheelbase		2860 mm	
Length		6105 mm	
Rear width with rack & pinion axle - short		Ø 100 mm x 2438 mm	
Rear width with rack & pinion axle - long		Ø 100 mm x 2807 mm	
Height with standard tyres		3142 mm	
Front tread (min. – max.)		1524 / 2134 mm	
Rear tread (min. – max.) - Flange		1524 / 2137 mm	
Rear tread (min. – max.) – Rack and pinion		1588 / 3219 mm	
Front axle clearance		530 mm	
Drawbar clearance		517 mm	
		with 20.8-42 R1 rear tyres	

Technical specifications are subject to change without notice. APRIL/10  
 Products in the pictures may be equipped with options.  
 Please contact your local dealer for detailed information.

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