

7020 Series Tractors



John Deere 170 to 200 hp Tractors



JOHN DEERE

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Intelligent Power. Infinite Vers

Intelligent Power. Infinite Possibilities. The 7020 Series tractors, from 170 to 200 hp, plus more power, comfort, versatility and productivity than ever before.

Accomplish any task with productivity and versatility that's hard to find anywhere else. The John Deere CommandCenter, for example, takes tractor performance to a whole new level. You can easily and quickly adjust tractor settings on-the-go, to optimise your productivity for current conditions.

Get the power of choice with a variety of options. John Deere offers you three transmissions in this class, including the innovative AutoPowr.

Keep reading to learn more about the 7020 Series tractors.



MORE PRODUCTIVITY

- CommandCenter gives you one-touch control of tractor settings
- Longer wheelbase optimises weight distribution
- Tyre options, including group 48 rear tyres, for better traction
- HitchCommand gives you precise, accurate control
- Transmission choices to match your operation
- Improved serviceability with one-piece tilt hood
- 34% more rear hitch lift capacity
- 20% more hydraulic flow for faster cycle times
- 13% larger fuel tank reduces refuelling stops
- JDLink compatible to optimise productivity

MORE VERSATILITY

- Sculptured frame design increases manoeuvrability
- Faster speeds for field and transport (up to 50km/h)
- Factory installed front hitch and FPTO available for front implements
- Up to seven electro-hydraulic SCV's to power intricate attachments
- AutoPowr transmission lets you travel as slow as 50 metres per hour.
- New steel wheel option reduces rotational weight for faster acceleration
- Heavy duty axles to carry today's bigger implements
- AutoTrac guidance for hands-free operation, even in speciality crops

atility.



MORE COMFORT

- CommandView cab is bigger for better visibility
- Active Seat minimises operator fatigue
- CommandARM puts controls at your fingertips
- AutoPowr transmission automatically matches engine speed and ground speed commands
- Cornerpost monitor improves visibility
- Automatic temperature control for specific cab temperature
- Rear hitch dampening in every position
- Electro-hydraulic SCV's give fingertip control
- Programmable lighting plus delayed egress lighting

MORE POWER

- The fuel efficient 8.1 I engine in the 7920 produces more than 200 hp for the power to take on larger tasks
- 6.8 I engines in the 7720 and 7820 feature 4-valve common rail design for more power, more torque and fuel efficiency
- Triple Link Suspension design optimises power and manoeuvrability

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200 HP/147 kW. Never before in this tractor class has John Deere offered a tractor so powerful. The 7920 will set all-new expectations for what a tractor can do.

There's a long list of features and benefits. CommandARM and the AutoPowr transmission are standard. So are Touchset hydraulic controls. The innovative CommandCenter puts information and adjustable settings in one easy to reach interface. And a powerful hitch lift capacity lets you take advantage of today's bigger, more productive implements.

Read on to learn more about the groundbreaking 7920 and the rest of the 7020 Series tractors.

7920 TRACTOR

- *8.1 l, 200 + hp engine powers through tough tasks*
- *High power to weight ratio for field and road work*
- *AutoPowr and CommandARM are standard – greater comfort!*

All this power. All this comfort. All

These days, transport capabilities are just as important as field performance. The 7020 Series tractors feature an automatic transport power boost to handle steep inclines or heavy loads. No switches to flip or settings to adjust – the tractor responds instantly – automatically.

Packed with power. With rated engine horsepower at 200 hp, the 7920 delivers more power than we've ever offered in this tractor class. Up to 234 HP (172 kW) is available at transport speeds providing the power to pull up long hills. This makes for a very high power to weight ratio.

Choose standard or heavy duty MFWD. Triple Link Suspension (TLS) puts more power to the ground with a permanently active hydro-pneumatic suspension system. You'll gain greater control and enhanced operator comfort. Hydraulic differential lock and front brakes boost the tractor's capabilities in the field and on the road.



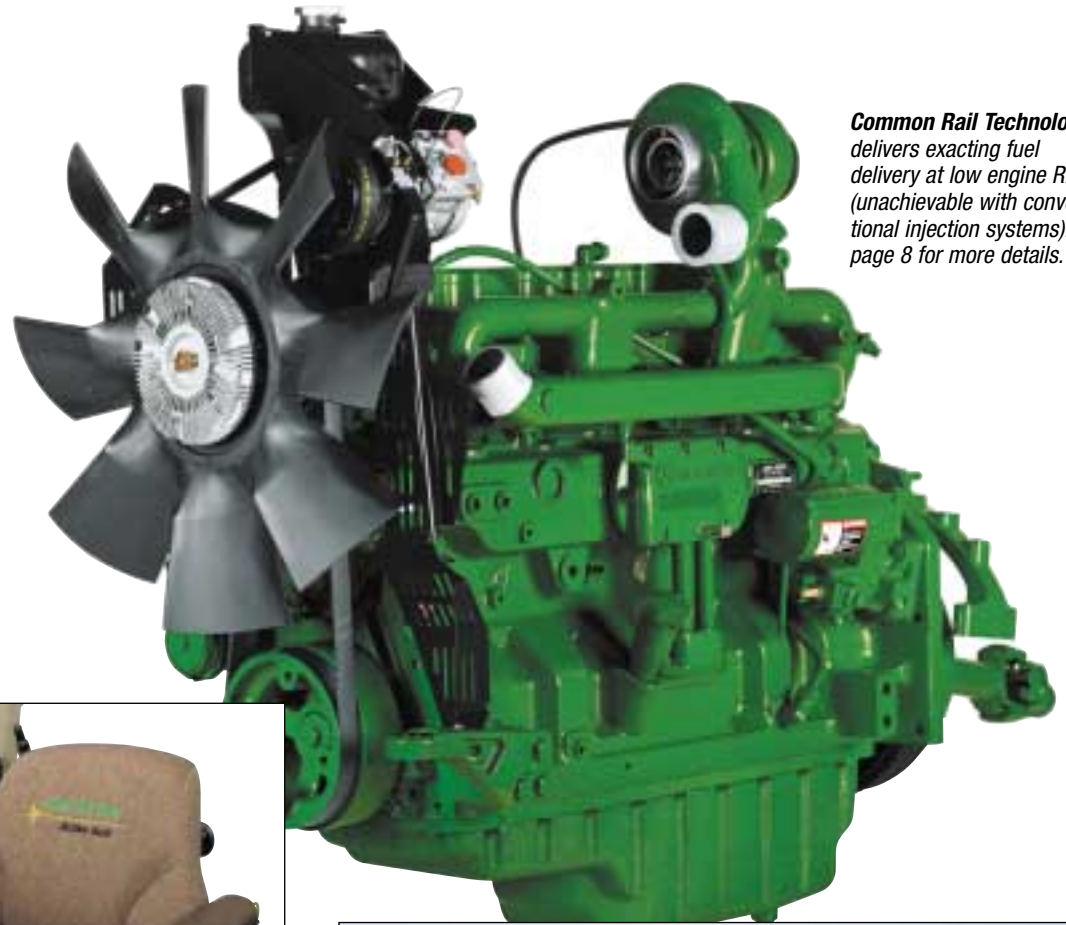
at your command.

With up to 9177 kg of rear hitch lift capacity, the 7920 has plenty of muscle for massive loads or larger, more productive implements. Both 540 rpm (35 mm) and 1000 rpm (44 mm) PTO shafts are available.

The 8.1 I engine has full electronic management and common rail fuel delivery for precise fuel metering. This means less wasted fuel and greater productivity across the entire engine rpm working range.

Plus, these engines will stay running for years to come, thanks to built-in John Deere reliability. Wet-sleeve cylinder liners, massive blocks, induction hardened crankshafts and fortress-like protection from the full frame design are just a few of the standard advantages.

Common Rail Technology delivers exacting fuel delivery at low engine RPM (unachievable with conventional injection systems). See page 8 for more details.



The heavy duty rear axle is ideal for carrying large loads, such as fully mounted ploughs or power harrow combinations.

CommandARM and AutoPowr are standard to keep you more comfortable for less fatigue and greater levels of productivity. You get fingertip adjustment of the most used controls. The advanced AutoPowr transmission communicates directly with the engine a minimum of 100 times per second for instant response to changing field or load conditions. See page 10 for details.



Put more power to the ground. Optional Group 43 front and Group 48 rear tyres with AutoPowr provide a bigger footprint for more effective traction. Plus, the optimised weight distribution of the 7020 Series means less ballast weight is needed.

New CommandView cab for

If comfort is important to you, step into the CommandView cab.

All the amenities you need are here, from the spacious size, to convenient storage areas, to the optional Active Seat. The CommandARM module puts vital functions at your fingertips, including transmission, hydraulic, PTO, IMS and throttle.

Even more impressive is the visibility – 57,000 square centimetres of glass offer you a clear view of your surroundings.

CommandARM controls. Controls are at your fingertips. Plus, electro-hydraulic SCV controls give you precise adjustment of implements.

A comfortable passenger seat is available with seat belt for safety. Or choose Field Office to add additional storage for maps, mobile phones or important papers on the left hand side.



Corner post display. A quick glance tells you what you need to know ... but it's never in the way.

CAB AND COMFORT

- Active Seat suspension for ultimate ride comfort
- Implement Management System reduces fatigue
- Unhindered visibility
- CommandCenter puts tractor settings and information in one place

more comfort, visibility and control.



Front and rear High Intensity Discharge Xenon lighting makes even the darkest nights seem bright. Plus, lights can be programmed to turn on or off as you desire.



The memory tilt steering wheel lets you set the optimum angle for your driving position. Raise or lower the console as needed and you can always return it to your preferred setting.



CommandCenter gives you one-touch access to important tractor settings and information. You can adjust hitch settings, programme and engage the Implement Management System (IMS), modulate PTO engagement, control of compatible implements, and more! See pages 16 – 17 for more information on this simple yet innovative system.



The optional automatic temperature control keeps you as cool or as warm as you want to be. Simply set a temperature and the system will keep you there. Vents are thoughtfully placed for proper air flow and efficiency.



Outstanding visibility is one of the key characteristics of the CommandView cab. Simply put, you're surrounded by over 57000 cm² of glass. The narrow dash, single piece windscreen and narrow cab posts maximise visibility.

ActiveSeat suspension technology helps deliver the smoothest ride ever found on a tractor with tyres. The electro-hydraulic/air cushion seat suspension system senses bumps before you do. It can isolate up to 90% of the vertical seat movements experienced in typical tractor operations. Body mass vibrations are greatly reduced, putting less strain on the operator. This in turn helps you work longer hours. Less fatigue means a more alert operator.

Active Seat is fully adjustable, with nine adjustment points to ensure the perfect fit and ride sensitivity. Plus, it's speed sensitive to provide the ultimate ride performance, regardless of whether you're in the field or on the road.



The accelerometer measures seat acceleration, while the position sensor measures seat position. This data is processed by the controller, which in turn tells the valve how much oil flow is needed to compensate for movement. The actuator controls the vertical position, while an auxiliary air reservoir delivers softer suspension.

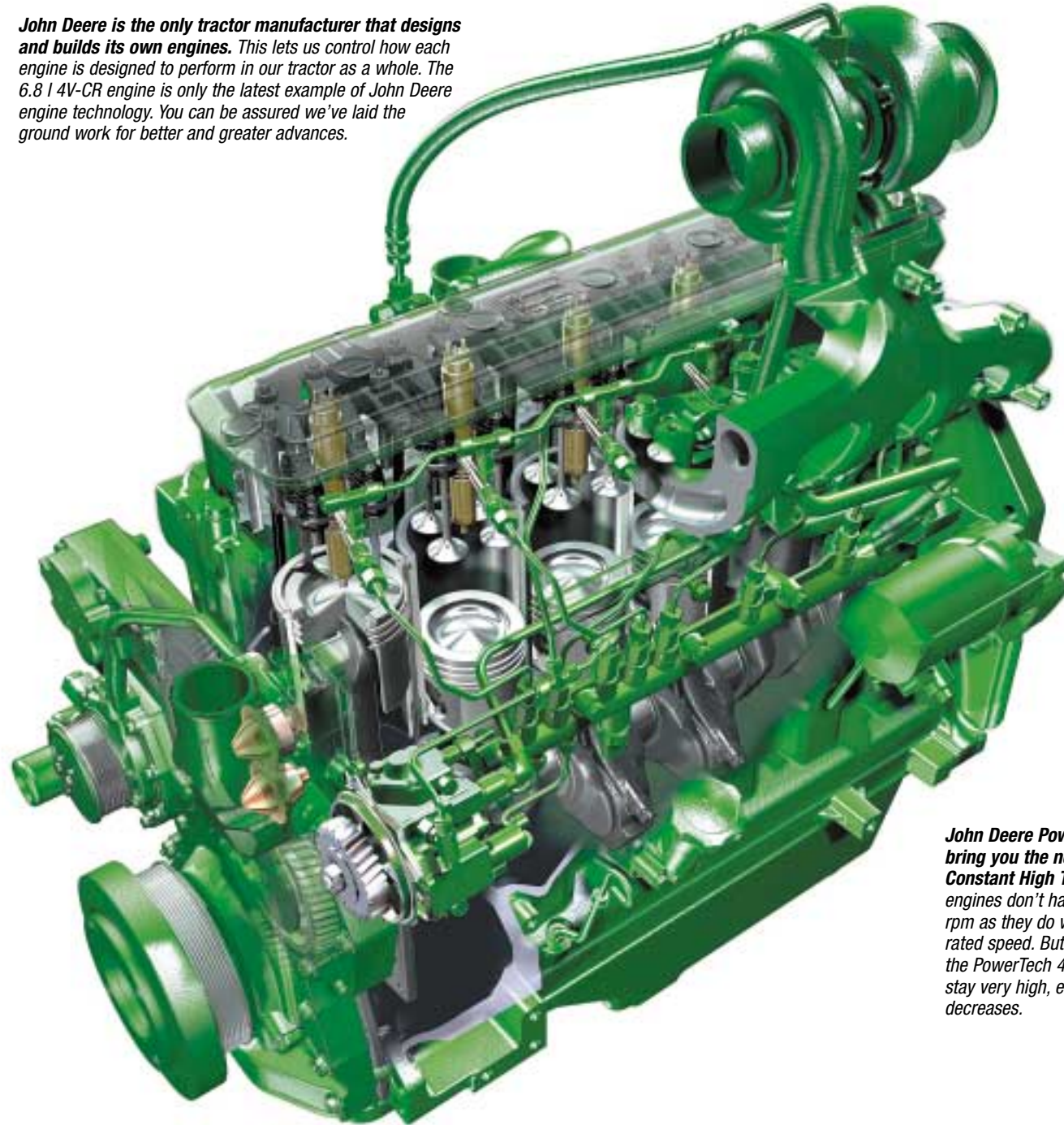
The 6.8 I PowerTech engine uses 4-valve common rail technology to deliver more value to your operation. You'll get the power and torque you need, with outstanding fuel efficiency. How is this possible? Four valves per cylinder allow the engine to breathe deeper, for more torque across the entire working range. The fully electronic common rail fuel system delivers high pressure fuel in just the right amounts for efficiency that's unachievable with conventional fuel injection engines.

6.8 L POWERTECH ENGINE

- 4V-CR technology lets you pull wider implements and work in faster gears
- 500 hour oil change interval means less service costs
- 13% more fuel capacity for less refuelling stops

Proven power. Increased

John Deere is the only tractor manufacturer that designs and builds its own engines. This lets us control how each engine is designed to perform in our tractor as a whole. The 6.8 I 4V-CR engine is only the latest example of John Deere engine technology. You can be assured we've laid the ground work for better and greater advances.



John Deere PowerTech 4V-CR engines bring you the newest engine technology – Constant High Torque. Most conventional engines don't have the same torque at low rpm as they do when the engine approaches rated speed. But as the graph shows, with the PowerTech 4V-CR engine, torque levels stay very high, even as engine speed decreases.

efficiency. Lasting results.

4-valve technology brings you an increase in breathing capacity of 22% compared to a 2-valve head. You get Constant High Torque characteristics over the whole working range for excellent pull-through, even in tough conditions. It also allows faster field operating speeds at lower engine speeds.



Electronically controlled fuel injectors deliver precise amounts of fuel. They are positioned directly over the combustion chamber for better fuel/air mixing. A pilot injection process further reduces engine noise during cold engine starts.

The common rail unit supplies each injector with precise, constant pressurised fuel. The engine attains efficient fuel consumption, independent of speed and load. Engine noise is also reduced.

The high pressure pump provides maximum fuel pressure independent of engine rpm. The pump delivers correct pressure to the electronic fuel injectors according to operating requirements. The result is better fuel use, more torque at low engine speeds and a wider constant power band.

The Charge Air Cooler receives hot air from the Turbocharger and cools it to provide a low temperature air intake for the engine. The resulting air flow has a higher oxygen content, aiding combustion for a cleaner fuel burn.



500 hour oil change intervals save you time and money. Filter and oil costs are reduced.



The 390 l fuel tank is 13% larger than on previous models. You'll be able to go long days without stopping to refuel.



One-piece hood and tilting oil cooler simplify cleaning of the high capacity radiator.



Boost your productivity with

The revolutionary **AutoPowr transmission** gives you comfort, flexibility and productivity, all in one easy to use package. The advanced technology needed to operate this system works quietly in the background, giving you the results you need. You can concentrate on other tasks about you, rather than adjusting the transmission or remembering which function key to press.

And since the transmission and engine communicate directly together, response is automatic and instantaneous.

AutoPowr



No clutching required ... even to stop. The AutoClutch works like the automatic transmission in a car. You press the brakes to stop. Release the brakes and start-up is smooth and easy – even with higher engine speeds when using PTO driven implements or during transport.



Just turn the thumb wheel on the speed control lever to preset your forward and reverse speed limits. The horizontal bars on the dashboard make it easy to see the set speed limits. A separate digital display also shows the exact speed settings. You can change speed selections on-the-go.



AutoPowr Selector. The engine and transmission communicate directly together at a minimum of 100 times per second. The left side of the dial is used in PTO applications, maximising productivity, while the right side helps minimise fuel consumption in tillage, seeding and transport applications.



Get maximum benefit from this highly productive transmission, with the features that you have come to expect, such as a left hand reverser, super creeper and field cruise control. The left hand reverser provides forward and reverse direction control as well as the traditional John Deere park position. It also features a neutral position and one of the outstanding AutoPowr functions – 'PowerZero'. The PowerZero position holds the transmission at zero speed, yet power is available immediately. This means, for example, no roll-backs during hill starts with loaded trailers. Both safety and comfort improve.

The AutoPowr transmission is available in 40 km/h and 50 km/h versions depending upon market.



TRANSMISSIONS

- A choice of transmissions to suit your operation
- All are easy to learn and easy to use
- PermaClutch II will never need adjustment or maintenance

a choice of transmissions

AutoQuad Plus



Selectable Auto and Eco shifting modes on the AutoQuad Plus allows simple adaptation to varying loads.

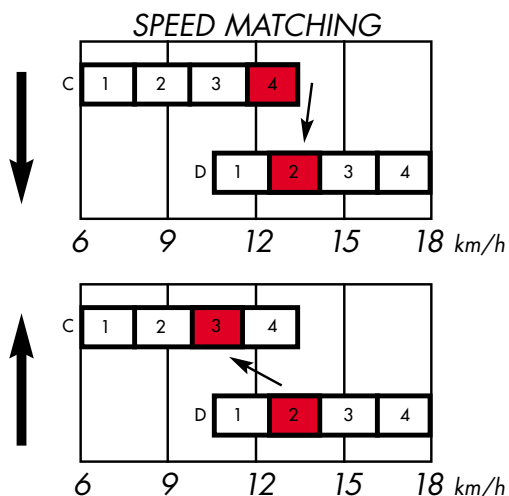


Control field and transport speeds with the AutoQuad Plus Transmission. Shift manually or let AutoQuad Plus shift gears automatically within the selected range.

Choose Auto Mode for tough jobs that need full engine power or choose Eco Mode for lighter jobs and save fuel and work with lower noise levels. FieldCruise (standard) limits engine speed to a preset level while maintaining constant travel speed across changing conditions – ideal for light load spraying and baling tasks.

PowrQuad Plus and AutoQuad Plus

Speed matching between gears is done electronically. For example, when shifting up or down between ranges, AutoQuad Plus and PowrQuad Plus senses the speed difference and compensates instantly. No guessing which gear should be selected. It's done automatically across the four powershift gears in each range. AutoQuad Plus and PowrQuad Plus are so simple to use. A single lever controls both range and speed and gear selection is displayed digitally.



Skip gears manually (when desired) by quickly pushing the thumb button or use the alternate rocker switch consecutively. This lets you instantly shift from 1 to 4 or vice-versa within each range.



The PowrQuad Plus Transmission offers 20 forward and 20 reverse speeds, ideally spaced within 5 ranges and speed matched between ranges. Select ranges and speeds with one lever. An easy to use left hand power reverser commands the tractor between forward and reverse without clutching. Three positions on the reverser lever ensure fast, fluid-like smoothness while you shuttle shift because shifting is fully modulated. Thousands of hours in the field have made this transmission a reliable performer.

Put even more power to the ground

Having more engine power means little if it's not harnessed correctly.

John Deere puts maximum power to the ground with the 7020 Series tractors. The unique cast full frame design and a longer wheelbase allows John Deere engineers to optimise weight distribution while improving the turning radius. Larger tyres and wheels deliver a bigger footprint for more traction. And more MFWD options means that your tractor can be adjusted specifically to your conditions.



PUT POWER TO THE GROUND

- *Full length frame protects engine and drive components*
- *Optimum weight distribution, improved turning radius*
- *A wide choice of wheels and tyres for maximum versatility*

The full length frame absorbs the punishment of field work, protecting the engine and drive train. The cast design offers greater versatility, yet also the strength and durability of steel.



The cast frame also allows better weight distribution. The 60:40 weight distribution means less ballast is needed for proper traction and stability.

More wheel choices. Choose from heavy duty cast or steel wheels. Steel wheels reduce overall tractor weight for greater application flexibility.



Multiple MFWD options mean you can customise the 7020 Series tractor to your operation. Choose from heavy duty MFWD, heavy duty MFWD with Triple Link Suspension (TLS) II, or heavy duty MFWD TLS II, with hydraulic differential lock and front brakes. Each will give you more lugging power to pull through tough spots.



A tighter turning radius. The contoured frame shape means the turning radius can be tighter. In fact, it's 23% less!

Tyre Combinations: 40 km/h transmissions										
	Front Rear	Group 42, Ø 1.5 m					Group 43, Ø 1.6 m			
		16.9 R30	420/90 R30	480/70 R30	540/65 R28	600/65 R28	420/85 R34	480/70 R34	540/65 R34	600/70 R30
Group 47, Ø 1.95 m	20.8 R42	●	●	●	●	●				
	520/85 R42	●	●	●	●	●				
	620/70 R42	●	●	●	●	●				
	650/75 R38	●	●	●	●	●				
	650/65 R42	●	●	●	●	●				
	710/70 R38	●	●	●	●	●				
Group 48, Ø 2.05 m	520/85 R46						●	●	●	●
	620/70 R46						●	●	●	●
	650/85 R38						●	●	●	●
	710/70 R42						●	●	●	●
	800/70 R38*						●	●	●	●

* country dependant

Tyre Combinations: 50 km/h transmissions						
	Front Rear	Group 42, Ø 1.5 m			Group 43, Ø 1.6 m	
		480/70 R30	540/65 R30	600/65 R28	540/65 R34	600/70 R30
Group 47, Ø 1.95 m	650/75 R38	●	●	●		
	710/70 R38	●	●	●		
Group 48, Ø 2.05 m	650/85 R38				●	●
	710/76R42				●	●

Select your preferred wheel and tyre choice. The wide choice of wheel equipment through to large Group 48 tyres gives you the flexibility to meet your operation's own demands. See your dealer for more information if the wheel/tyre combination you want isn't listed here.

Accelerate quickly. Stop with confidence. If you're hauling loads, you want the power to handle what's behind you. That's why 7020 Series tractors feature an automatic 10% transport power boost. Plus, PowerTech engines have more low speed torque to improve load starting and transient response – crucial for transport.

The high power-to-weight ratio gives you impressive acceleration. Matched with the AutoPowr transmission, acceleration is smooth and fast.

TRANSPORT AND VERSATILITY

- *10% transport power boost to handle steep inclines*
- *Parallel tracking and AutoTrac assisted steering increase productivity and reduce fatigue*
- *Many options for versatility in applications*



All 7020 Series tractors feature a 10% transport power boost, regardless of engine or transmission. This increased power helps the tractor climb hills and inclines effortlessly.

Make tighter turns with increased manoeuvrability. You'll be able to make tighter turns between barns and on roads, thanks to the contoured frame design.

Wet disc front brakes give you the control you need. They are required for 50 km/h transmissions, optional for 40 km/h transmissions.

Choose steel wheels or cast wheels. Both are precision manufactured to reduce loping. Steel wheels are lighter for improved acceleration.

the field or on the road.



John Deere AutoTrac frees your hands to concentrate on other tasks, yet can be easily over-riden to give you complete control. Plus, fatigue is greatly reduced, especially at night. Or choose Parallel Tracking for a clear view of the desired path. Either way, you'll reduce overlaps minimising costs and increasing your productivity.



Manage your farm's equipment for optimum productivity and efficiency with JDLink Machine Messenger. You can keep tabs on the tractor's location and since JDLink is tied into the tractor's sensors, you'll also stay informed of the machine's productivity and performance. Your dealer can also warn you about preventative maintenance required. It makes you stay up and running during peak seasons.



All these AMS guidance systems require only three common components you may already own on your John Deere combine or other equipment. Simply connect the StarFire receiver, the mobile processor and display, insert the Key Card and you're ready to go. It's as easy as 1, 2, 3.

PRODUCTIVE AND VERSATILE

What do you get when you combine the power of the 8020 Series with the versatility of the 6020 Series tractors? Answer: The 7020 Series tractors.

By taking the best technology from each tractor line, John Deere engineers have developed a tractor series that is at home in the field, on the road or at the farm.

The sculptured frame design optimises weight distribution and manoeuvrability. The optional heavy duty axle, factory installed front hitch and high capacity rockshaft carry heavy implements with ease. Plus, productive transmissions, teamed with the legendary PowerTech engine, haul loads anywhere.

See for yourself how productive these tractors can be in any environment.



Check on vital tractor information or adjust for peak productivity with the CommandCenter, available only on John Deere 7020 Series tractors.

The CommandCenter replaces the dashboard monitor. It displays performance, setting, diagnostic and alarm information for the tractor. It's located close at hand on the right console. It puts everything you need to adjust the tractor to your conditions in one easy to reach place. It's very easy and simple to use.

COMMANDCENTER

- Tractor performance data and settings in one spot for maximum productivity
- Set hitch limits and rates quickly and accurately

1 A split screen shows you valuable tractor data at a glance.

2 Press one of the four display buttons including wheel slip, PTO speed, time or working hours to constantly monitor performance on the top half of the screen.

3 Turn the knob to change the lower half view. You can view information for:

- Percent slip
- PTO speed
- Clock
- Engine hours
- Ground speed (radar)
- Ground speed (axle)
- Hours since service
- Engine coolant temperature
- Engine oil pressure
- System volts
- Transmission oil temperature
- AutoPowr commanded speed
- Rear hitch position
- Rear PTO speed
- Front PTO speed
- Implement width
- Productivity
- Fuel efficiency
- Area efficiency
- Distance
- Total area
- Fuel/hour
- Time to empty
- Field Cruise



4 The following functions, when displayed, have an arrow in the lower right corner to indicate they can be adjusted or reset. Press the enter button to set values for:

- Field Cruise
- Implement width
- Working width
- Total area
- Hours since service

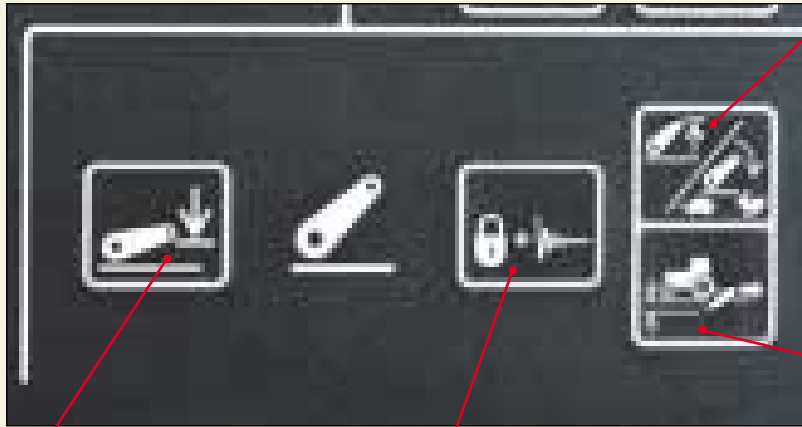
5 Pressing the tractor settings button (5) allows you to adapt the tractor to your conditions for maximum productivity. You can adjust:

- Backlight/Contrast
- Hitch slip Control
- PTO ramp (drive start modulation)
- AutoPowr settings
- Area counter
- Units (metric or imperial)
- Language
- Clock
- Stored codes
- Diagnostics

Fingertip control. The

CommandCenter.

HitchCommand



The current working depth can be memorised using the lower limit button and recalled using the electronic hitch lever's detent position. The same lever can be used for continuous adjustment on the go.

Press the hitch lock button to lock out the hitch and automatically activate hydraulic dampening for a smoother ride in any position. Press it again to unlock.

Adjust upper hitch limits and rate of drop to match any implement or headland turnover. Use the knob to set specific parameters you want. Press enter to save.

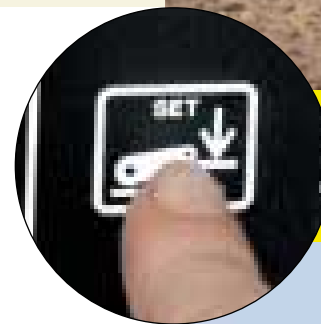
Quickly adjust hitch load/depth settings. CommandCenter gives you a clear visual for consistent implement control.



HitchCommand gives you precise control of hitch settings and limits. It's integrated into the easy to use CommandCenter for simplicity. The display screen gives you a clear indication of the hitch settings as you adjust them. You'll gain a precise, accurate view – no more guess work!



1 Hitch position is controlled using an electronic lever



2 Press 'set' to remember the current depth

3 Finite adjustments can be made on-the-go



Expand your versatility with a **John Deere front hitch**. The factory installed front hitch option allows you to make maximum use of your 7020 Series tractor. The hitch and the front PTO are fully integrated, so efficiency isn't compromised. The heavy duty front MFWD axle option lets you carry bigger implements. You'll optimise each pass in the field for greater productivity.

HITCHES

- High capacity (5200 kg) front hitch increases productivity
- A choice of rear rockshaft lift capacities extends tractor versatility
- Rear hitch dampening in any position improves transport

More hitch choices, more



The CAT III/N front 3 point hitch is integrated into the design of the tractor. Lift arms fold out of the way when not in use.



A remote lift switch lets you raise or lower the front hitch from the ground. You won't have to climb back into the cab to make small adjustments.



Both front and rear PTO feature modulated engagement and maintenance free clutches for smooth, long life operation.



Rear PTO options include 540, 1000 or 540, 540E, 1000E rpm. See the specifications page for options by model.

versatility than ever before.



The automatic coupling Premium Wagon Hitch has nine positions for easy hitching of 4 wheeled trailers.



The hydraulic push back, pick-up hitch gives you an excellent view for easy coupling and can be pushed into the soil to recover sunken trailers.



The high clearance piton fix type hitch provides the strength and security required for transport applications.



The ball hitch is useful in applications where a tractor is dedicated to implements such as sprayers or liquid manure application.



Rear hitch dampening is possible in every position for smoother transport.



Remote switches for the rear hitch make it easy to hook up implements from the ground. A slower raise/lower rate keeps you safe.



Choose your rear 3-point hitch: The standard 3-point hitch features 11350 kg max. lift capacity. For heavier mounted implements, you can opt for a 8150 kg max. 3-point hitch. Both feature full electronic load and depth adjustment for precise implement placement.



No matter what your implement or trailer, John Deere has a hitch for it. Drawbar hitches include multi-position wagon hitches, pick-up hitches, piton and ball hitches. If you have more than one hitch type, a 3-in-1 hitch is available for convenience.

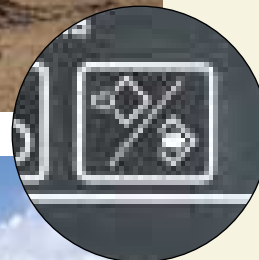
3-point hitches feature electronic control on the CommandARM or right console. Plus, you'll be able to carry larger implements with more lift capacity. A longer wheel-base improves ride and counter-balances implement weight for less ballast needs.

IMPLEMENT MANAGEMENT

The **Implement Management System (IMS)**, lets you perform multiple tractor and implement functions with the push of one button. It's easy to set and easy to use. Up to 20 functions can be programmed, including hydraulic functions, PTO, three point hitch and differential lock. The sequences you programme remain in the system until they are cleared out or the system is re-programmed. The system is a real fatigue fighter during long days in the field.

HYDRAULICS

- *Implement Management System (IMS) puts headland operations at the touch of a finger*
- *TouchSet controls maximise productivity*
- *Up to seven SCV's are available with electro-hydraulic controls*



Legendary hy

The **John Deere Implement Management System** is easy to set, easy to use. To programme IMS, push the "on" touch pad. With the tractor moving, press the "learn" touch pad. Engage the sequence button, 1 or 2 on the CommandARM module and execute your tractor commands.

1 *In this example, the operator has programmed the IMS sequence switch #1 to disengage the PTO, raise the row marker, raise the planter, disengage the MFWD and disengage the differential lock. As he reaches the end of the field, he pushes the #1 sequence button.*

2 *The operator executes his turn with minimum effort. He executes 5 commands with the push of a button. For tight turning angles the driveshafts on both the TLS and regular MFWD can be programmed to disengage with IMS.*

3 *After the turn, he pushes the #2 IMS sequence switch. The tractor automatically re-engages the PTO, lowers the row marker, lowers the planter, re-engages the MFWD and re-engages the differential lock. During a long day, IMS is a real fatigue fighter that can add hours to your productivity and help minimise mistakes.*

The **Implement Management System** lets you programme the hydraulic remotes to extend, retract, float or cancel; raise the 3-point hitch, disengage and re-engage the PTO; increase or decrease the speed with the AP or shift up, shift down with the AQ.

You can also engage or disengage the MFWD and differential lock. Once the functions are learned, press the "save" touch pad. Now, the tractor is ready to perform all these functions and it's all push-button easy.



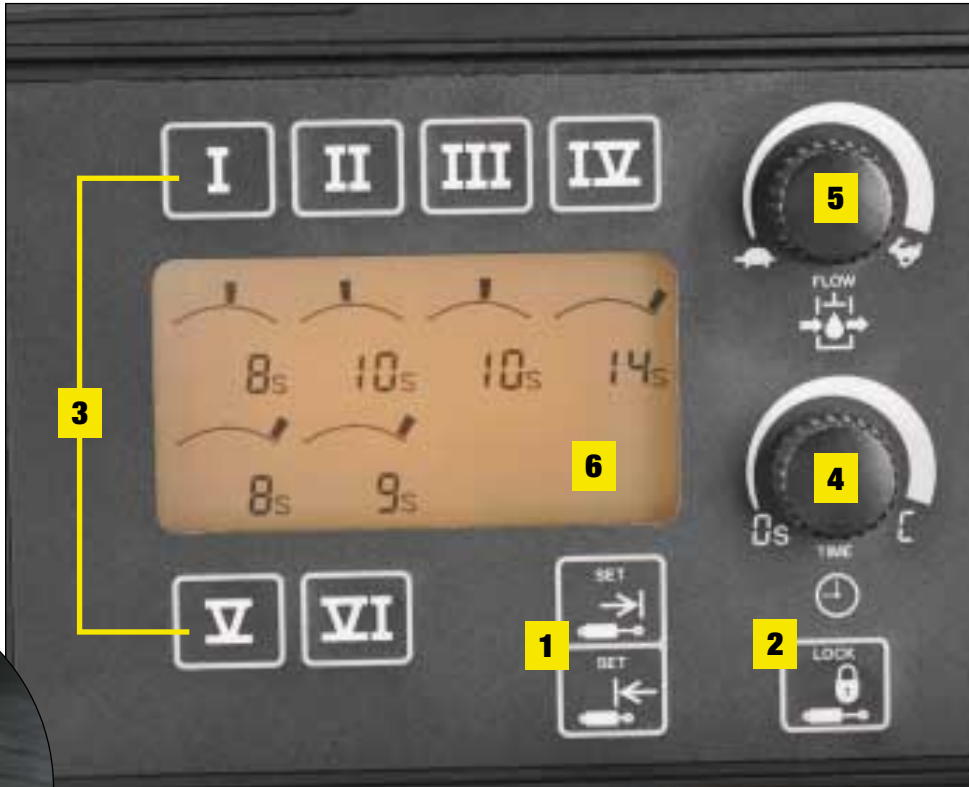
draulics. Powerful Productivity.

HYDRAULICS

1 You can use these pads to set remote hydraulic cylinder upper and lower limits when your implement is equipped with TouchSet control.

2 Push this pad to deactivate the hydraulic system prior to implement transport.

3 Set individual SCV's by pressing the corresponding Roman numeral and adjusting the timed detent and flow with two rotary knobs (4 and 5).



4 This dial sets the length of time you wish oil to flow. Every time you engage the hydraulic lever, oil will flow automatically for the specified time set. Times can be set for each SCV individually.

5 To set hydraulic flow, turn the dial on the right. Adjust from the seat, on-the-go whilst the SCV is operating. Settings are easily repeated when changing implements.

6 A large digital display permanently shows the rate and flow you set, as well as the flow time.



Electro-hydraulic SCV levers on the CommandARM module provide complete control with extend, retract, float and timed detent positions. You can even feather the control. Flip down covers prevent accidental engagement of the hydraulic valves.



Up to three mid-mount SCVs are available. Choose a 2 or 3 function joystick, ensuring adequate power and complete control over front mounted implements.



Front SCV's can be installed for front implements that require multiple functionality. One set will be installed in base ex factory when the tractor is ordered with front hitch.



Get up to four rear SCV's. Team them with up to three mid-mount SCV's for maximum versatility and implement functionality.



Easy to service. Easy to own.

Owning a John Deere tractor has never been easier. Daily service and regularly scheduled maintenance is easy, thanks to convenient features. A one-piece tilt hood lets you reach service points quickly and easily. Should you ever need more extensive service, your John Deere dealer is there with the tools and support for fast diagnostics and repair. You'll stay up and running so critical operations can be completed.



SERVICEABILITY

- *One-piece tilt hood plus easy access to key service points makes daily maintenance simple*
- *Unparalleled dealer support and highly qualified technicians keep you up and running*



Service ADVISOR speeds diagnostics time. Every John Deere dealer can link to the on-board computer for quick, sure troubleshooting. It's another advantage only your John Deere dealer can provide.



Keep tabs on your equipment with JDLink. An easy to use web site helps you optimise performance and can alert you to service issues before they become a problem.



Get quick access to the front window washer reservoir. A protective shield can be removed to access the tank from the ground.



Check the battery from the ground. It's protected from the environment by a sturdy cover. A booster terminal lets you jump start another vehicle.



Fill the fuel tank from the ground. Plus, the large capacity 390 l fuel tank means you'll stop to re-fuel less often.



500 hour engine oil change intervals save you time and money. You'll spend less on oil and more time in the field.



The cab air filter is located on the right side of the cab. You can remove and replace the filter from the ground. Air intake is from above the door, away from dust and debris.



The engine air filter can be replaced from the ground. Air flows freely through the large grill screen and side louvres for good intake and cooling.



Check the engine coolant level at a glance with the sight glass. It's located at the front of the tractor near the fuel fill for quick service.



The radiator flips forward for easy cleaning. Strong latches hold it securely while you're operating the tractor.

7720



7820



7920



	7720	7820	7920
ENGINE PERFORMANCE			
Rated Power (ECE-R24)	170 hp (125 kW)	185 hp (136 kW)	200 hp (147 kW)
Maximum Power (ECE-R24)	182 hp (134 kW)	197 hp (145 kW)	215 hp (158 kW)
Max. power * (ECE-R24) in Transport mode	197 hp (145 kW)	214 hp (157 kW)	234 hp (172 kW)
Rated Power (97/68 EC)	175 hp (129 kW)	192 hp (141 kW)	208 hp (153 kW)
Maximum Power (97/68 EC)	188 hp (138 kW)	203 hp (149 kW)	223 hp (164 kW)
Max. power * (97/68 EC) in Transport mode	204 hp (150 kW)	220 hp (162 kW)	243 hp (179 kW)
Constant Power	400 rpm	400 rpm	400 rpm
Torque Reserve	45%	45%	45%
Fuel Consumption at Best Point	212 g/kWh	212 g/kWh	219 g/kWh
Max. Torque	824 Nm @ 1400 rpm	903 Nm @ 1400 rpm	969 Nm @ 1400 rpm
ENGINE			
Rated speed	2,100 rpm	2,100 rpm	2,100 rpm
Type	In-line, 6-cylinder, wet-sleeve, valve-in-head	In-line, 6-cylinder, wet-sleeve, valve-in-head	Turbocharged, Intercooled
Aspiration	Turbocharged, Intercooled	Turbocharged, Intercooled	Turbocharged, Intercooled
Displacement, bore and stroke	6.8 litre, 106.5 x 127 mm	6.8 litre, 106.5 x 127 mm	8.1 litre, 116 x 129 mm
Cooling system	Belt-driven centrifugal pump with viscous drive	Belt-driven centrifugal pump with viscous drive	Belt-driven centrifugal pump with viscous drive
Air System	Dry filter with safety element and vacuum motor aspirated Power Core pre cleaner	Dry filter with safety element and vacuum motor aspirated Power Core pre cleaner	Dry filter with safety element and vacuum motor aspirated Power Core pre cleaner
Fuel Injection system	High Pressure Common Rail, full electronic control	High Pressure Common Rail, full electronic control	High Pressure Common Rail, full electronic control
Fuel capacity	392 litres; with Right Hand Door 358 litres	392 litres; with Right Hand Door 358 litres	392 litres; with Right Hand Door 358 litres
TRANSMISSION OPTIONS			
AutoPowr	Infinitely variable transmission and engine management, AutoClutch, PowrZero, variable reverser ratio and Field Cruise	Infinitely variable transmission and engine management, AutoClutch, PowrZero, variable reverser ratio and Field Cruise	Infinitely variable transmission and engine management, AutoClutch, PowrZero, variable reverser ratio and Field Cruise
Speeds	Infinite – 50 m/h to 42 km/h or 50 km/h versions	Infinite – 50 m/h to 42 km/h or 50 km/h versions	Infinite – 50 m/h to 42 km/h or 50 km/h versions
AutoQuad Plus	Automatic shifting of 4 powershift speeds with left hand 1:1 power reverser, Auto and Eco modes, speed matching and Field Cruise	Automatic shifting of 4 powershift speeds with left hand 1:1 power reverser, Auto and Eco modes, speed matching and Field Cruise	Automatic shifting of 4 powershift speeds with left hand 1:1 power reverser, Auto and Eco modes, speed matching and Field Cruise
Speeds	20F/20R – 2.4 to 40 km/h or 50 km/h versions	20F/20R – 2.4 to 40 km/h or 50 km/h versions	20F/20R – 2.4 to 40 km/h or 50 km/h versions
PowrQuad Plus	Four powershift speeds with left hand 1:1 power reverser and speed matching	Four powershift speeds with left hand 1:1 power reverser and speed matching	Four powershift speeds with left hand 1:1 power reverser and speed matching
Speeds	20F/20R – 2.4 to 40 km/h	20F/20R – 2.4 to 40 km/h	20F/20R – 2.4 to 40 km/h
PTO – FRONT AND REAR			
Type – Rear	Shiftable in cab 2 speed (540/1000) or 3 speed (540E, 1000E and 1000) with 35 mm 21 spline and 6 spline dry change shaft	Shiftable in cab 2 speed (540/1000) or 3 speed (540E, 1000E and 1000) with 35 mm 21 spline and 6 spline dry change shaft	Shiftable in cab 2 speed (540/1000) or 3 speed (540E, 1000E and 1000) with 35 mm 21 spline and 6 spline dry change shaft
Engine speed at rated PTO	1000: 1950 rpm; 540E / 1000E: 1750 rpm	1000: 1950 rpm; 540E / 1000E: 1750 rpm	1000: 1950 rpm; 540E / 1000E: 1750 rpm
Type – Front	1000 rpm Counter-clockwise Type1 (all models), 1000 rpm Clockwise Type 2 (7720/7820 only) or 1000 rpm Clockwise Type 3 (7920 only)	1000 rpm Counter-clockwise Type1 (all models), 1000 rpm Clockwise Type 2 (7720/7820 only) or 1000 rpm Clockwise Type 3 (7920 only)	1000 rpm Counter-clockwise Type1 (all models), 1000 rpm Clockwise Type 2 (7720/7820 only) or 1000 rpm Clockwise Type 3 (7920 only)
HYDRAULIC SYSTEM			
Type	Single pump, pressure/flow compensated, load sensing	Single pump, pressure/flow compensated, load sensing	Single pump, pressure/flow compensated, load sensing
Maximum pressure	210 bar	210 bar	210 bar
Maximum output flow	120 litre/min; 114 litre/min at SCV couplers	120 litre/min; 114 litre/min at SCV couplers	120 litre/min; 114 litre/min at SCV couplers
Selective control valves	Neutral, raise, lower and float. Adjustable flow with temperature compensation. Selectable detents. Load check valves and release assistors	Neutral, raise, lower and float. Adjustable flow with temperature compensation. Selectable detents. Load check valves and release assistors	Neutral, raise, lower and float. Adjustable flow with temperature compensation. Selectable detents. Load check valves and release assistors
Quantity: Rear	PowrQuad Plus / AutoQuad Plus: 2 standard, 3 and 4 Optional; AutoPowr: 3 standard, 4 optional	PowrQuad Plus / AutoQuad Plus: 2 standard, 3 and 4 Optional; AutoPowr: 3 standard, 4 optional	PowrQuad Plus / AutoQuad Plus: 2 standard, 3 and 4 Optional; AutoPowr: 3 standard, 4 optional
Quantity: Front	Mid-Mount Stack with 2 or 3 EH SCV's	Mid-Mount Stack with 2 or 3 EH SCV's	Mid-Mount Stack with 2 or 3 EH SCV's
3 POINT HITCH			
Rear Hitch – Type	Category III N / III with hook-type draft link ends	Category III N / III with hook-type draft link ends	Category III N / III with hook-type draft link ends
OECD lift capacity at 610 mm (Factory Observed)	Electro-hydraulic with full electronic lower link draft sensing. Hitch dampening. External control switches	Electro-hydraulic with full electronic lower link draft sensing. Hitch dampening. External control switches	Electro-hydraulic with full electronic lower link draft sensing. Hitch dampening. External control switches
Max. lift capacity at hitch points (Factory Observed)	62.0 kN (6324 kg) Standard, 74.0 kN (7560 kg) Optional	62.0 kN (6324 kg) Standard, 74.0 kN (7560 kg) Optional	62.0 kN (6324 kg) Standard, 74.0 kN (7560 kg) Optional
Front Hitch – Type	73.5 kN (7493 kg) Standard, 90.0 kN (9177 kg) Optional	73.5 kN (7493 kg) Standard, 90.0 kN (9177 kg) Optional	73.5 kN (7493 kg) Standard, 90.0 kN (9177 kg) Optional
	Optional Category II with hook-type draft link ends, 49.0 kN (5200 kg) lift capacity (3175 kg OECD at 610 mm)	Optional Category II with hook-type draft link ends, 49.0 kN (5200 kg) lift capacity (3175 kg OECD at 610 mm)	Optional Category II with hook-type draft link ends, 49.0 kN (5200 kg) lift capacity (3175 kg OECD at 610 mm)
STEERING AND BRAKES			
Steering	Integrated, balanced hydrostatic power steering; 4.2 turns to lock	Integrated, balanced hydrostatic power steering; 4.2 turns to lock	Integrated, balanced hydrostatic power steering; 4.2 turns to lock
Brakes	Power brakes with oil cooled disc, hydraulically actuated and self equalising. Transmission park lock and secondary brake	Power brakes with oil cooled disc, hydraulically actuated and self equalising. Transmission park lock and secondary brake	Power brakes with oil cooled disc, hydraulically actuated and self equalising. Transmission park lock and secondary brake
MFWD	John Deere high capacity axle with maximum 52 degree steering angle and 5 degree caster angle. Limited slip differential	John Deere high capacity axle with maximum 52 degree steering angle and 5 degree caster angle. Limited slip differential	John Deere high capacity axle with maximum 52 degree steering angle and 5 degree caster angle. Limited slip differential
TRIPLE LINK SUSPENSION			
Suspension system	Hydro-pneumatic passive, Triple Link with draft member and hydro cylinder link. Auto levelling.	Hydro-pneumatic passive, Triple Link with draft member and hydro cylinder link. Auto levelling.	Hydro-pneumatic passive, Triple Link with draft member and hydro cylinder link. Auto levelling.
Suspension Range	100 mm	100 mm	100 mm
Cylinders and Accumulators	2 double acting cylinders and 3 pneumatic accumulators	2 double acting cylinders and 3 pneumatic accumulators	2 double acting cylinders and 3 pneumatic accumulators
CAB			
Type	CommandView cab, with ComfortCommand seat or Active Seat; CommandARM on AutoPowr models	CommandView cab, with ComfortCommand seat or Active Seat; CommandARM on AutoPowr models	CommandView cab, with ComfortCommand seat or Active Seat; CommandARM on AutoPowr models
Air System	Air Conditioning or optional Automatic Temperature Control	Air Conditioning or optional Automatic Temperature Control	Air Conditioning or optional Automatic Temperature Control
Display	Corner Post display, dash board mini-pod, CommandCenter vehicle monitor; Hydraulic TouchSet panel on AutoPowr models	Corner Post display, dash board mini-pod, CommandCenter vehicle monitor; Hydraulic TouchSet panel on AutoPowr models	Corner Post display, dash board mini-pod, CommandCenter vehicle monitor; Hydraulic TouchSet panel on AutoPowr models
SERVICE INTERVALS AND QUANTITY			
Engine Oil	500 hours, 26 litres	500 hours, 26 litres	500 hours, 24 litres
Engine Coolant	5000 hours, 32 litres	5000 hours, 32 litres	5000 hours, 32 litres
Transmission, Final Drives and Hydraulic Oil	1500 hours, 108 litres	1500 hours, 108 litres	1500 hours, 108 litres
Front Axle Oil (complete)	1500 hours, 14.4 litres	1500 hours, 14.4 litres	1500 hours, 14.4 litres
DIMENSIONS AND WEIGHT			
Wheelbase	2860 mm	2860 mm	2860 mm
Width x height x length	2.44 x 3.21 x 5.45 m	2.44 x 3.21 x 5.45 m	2.44 x 3.26 x 5.50 m
With tyre size	540/65 R30 and 650/65 R42	600/65 R28 and 710/70 R38	600/70 R30 and 710/70 R42
Minimum Shipping weight	7772 kg	7772 kg	7939 kg
Maximum permissible weight	13,100 kg	13,100 kg	13,100 kg

* = a Transport Power Mode which increases engine power activates when travelling above 25 km/h with the PowrQuad Plus and AutoQuad Plus transmissions and 15 km/h on the AutoPowr Transmission.
Specification and design subject to change without notice.

We're there when you need us

In-field service is just a part of your John Deere dealer's long term commitment to keeping you up and running. He's also close to home. So when you need a simple replacement part ... or years down the road should you require more substantial attention ... your John Deere dealer is there to help. John Deere trained technicians know these tractors inside and out. They're skilled at diagnosing problems correctly and providing a quick remedy. Your dealer's well stocked parts department, teamed with computerised parts ordering, ensures you get fast delivery. You can count on your John Deere dealer to be there when and where you need him.



Using our outstanding Service ADVISOR computerised diagnostic programme, your John Deere service technician can quickly diagnose problems and get fast, on-the-spot solutions. You save time and money.



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JOHN DEERE

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