

6010 SE SERIES TRACTORS

55 to 77 kW (75 to 105 hp)



Contact your local dealer for details on John Deere Credit

IMPORTANT INFORMATION
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A.C.N. 008 671 725



Meet the expanded line of tough task masters

John Deere 6010 SE Tractors: Simple. Functional. Economical. The easiest way to put John Deere quality to work in your operation.

Now, there are more John Deere SE models to choose from. The five new models feature the 4.5 litre 4 cylinder POWERTECH engines; naturally aspirated and turbocharged. You also get the same tight turning 4WD system. The same power steering. The same strong full frame chassis and the same standard electrohydraulic hitch controls.

What's different from the premium 6010 Series line? The PC-hydraulic system is designed for grassland applications and mixed farming – simple and efficient. Transmission versions reflect the specific needs from smooth shifting SynchroPlus* to load shiftable PowrQuad. The cab features different ventilation and there are dedicated options and attachments.

No other tractor in this price range can match the standard quality features of a 6010 SE tractor. Read on to learn more. Then compare.

4WD

The sharp 52° steering angle coupled with the 12° caster angle enables tight turns, even with wide front tyres on narrow tread settings.

Brakes

Oil cooled disc brakes provide sure stopping power. The self-adjusting, self-equalising brakes reduce wear and eliminate the need for adjustments.

Cab

Relax into the comfortable seat, close the tight-sealing door and start the engine. You'll feel ready to work. The right hand control console places transmission, hydraulic and PTO controls at your fingertips.

4.5 L POWERTECH engines

Designed to meet emission requirements without compromising engine performance, these powerplants deliver torque reserves as high as 34%, excellent fuel economy and enhanced durability.



Transmissions

The 12/4 SyncroPlus transmission is standard*. The 16/16 Power Reverser transmission provides a left hand reverser for clutchless shuttling. You can also choose the 16/16 PowrQuad transmission with right hand or left hand power reverser. It provides four powershifts in each of four synchronised ranges.

*Not available in the UK & Ireland

Hydraulics

The load sensing system with constant flow pump provides 54 L/mn of hydraulic flow and maximum pressure of 200 bar.

PTO

The exchangeable rear PTO provides 540 and 1000 rpm and smooth, shock-free engagement. A front 1000 rpm PTO is available.

Steering

Hydrostatic power steering is standard for effortless control.

3-point hitch

The hitch features precise, electrohydraulic control, electronic lower link sensing, hitch dampening and a fender mounted remote control switch.

John Deere's rugged full frame chassis is a common component on all 6010 SE tractors, just like the premium 6010 Series line. It isolates the engine and powertrain from load stress for greater reliability. It also handles heavy front, mid and rear mounted implements easily.



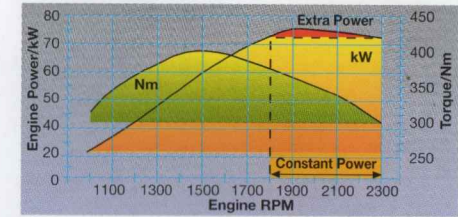
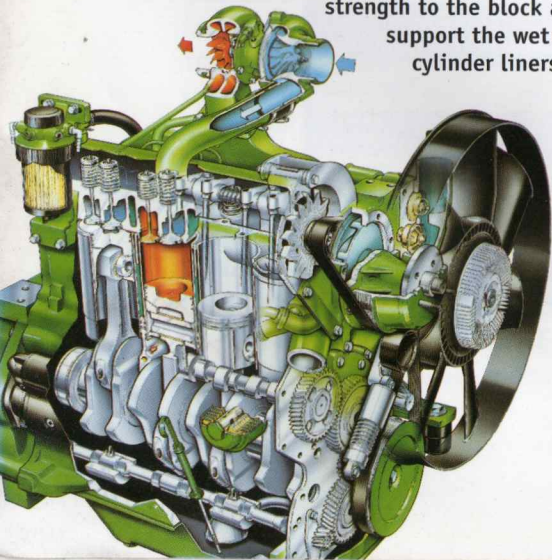
Model	kW	HP	Cylinders	Low profile cab available
6010SE	55	75	4	Yes
6110SE	59	80	4T	Yes
6210SE	66	90	4T	Yes
6310SE	74	100	4T	Yes
6410SE	77	105	4T	Yes

The advantages of John Deere engineering: higher torque and lower emissions

Rather than adjusting an existing engine design to meet emission requirements – a process that almost always hurts engine performance – John Deere engineers chose a different approach. High torque response, excellent fuel efficiency and durability had to be retained. They are, after all, the three engine characteristics of most value on your farm.

Starting with a blank sheet of paper, a totally new engine design was crafted: POWERTECH engines.

Increased strength comes from the one-piece grey iron casting with deep, thick side skirts and heavy internal webbing. Circular truss ribs provide further strength to the block and support the wet cylinder liners.



High torque reserve on every model.
The 6410 SE power curve, shown here, illustrates the wide constant power band. Extra Power of 2.6 kW (3.5 hp) measured at the PTO.

These engines are emission certifiable but they also raise the bar on performance. Torque reserves are increased to keep you moving through lug downs with less downshifting. There are still wide constant power bands and Extra Power. Fuel efficiency meets John Deere standards for excellence and durability is enhanced. POWERTECH engines are the future of tractor power, today.

Three smooth transmission choices



**Standard
12 speed
SynchroPlus
Transmission***

- Three fully synchronised forward speeds and one reverse speed in each of four fully synchronised ranges for a total of 12 forward and 4 reverse speeds
- Smooth on-the-go shifts
- 1st gear and reverse are positioned in-line for convenient shuttle shifts
- Integrated park position
- Forward speeds up to 30 km/h
- Optional creeper for working speeds as slow as 250 m/h.
- Standard PermaClutch II wet disc clutch

*Not available in the UK & Ireland



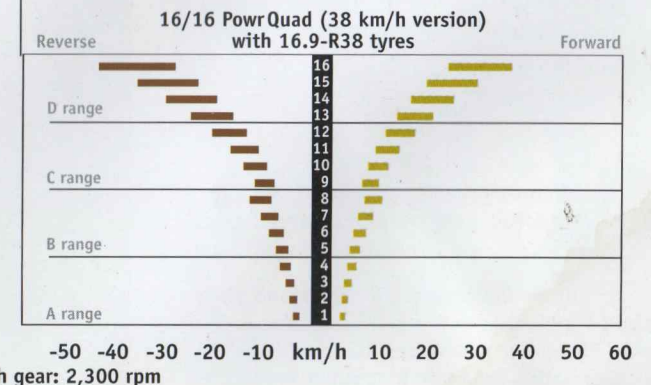
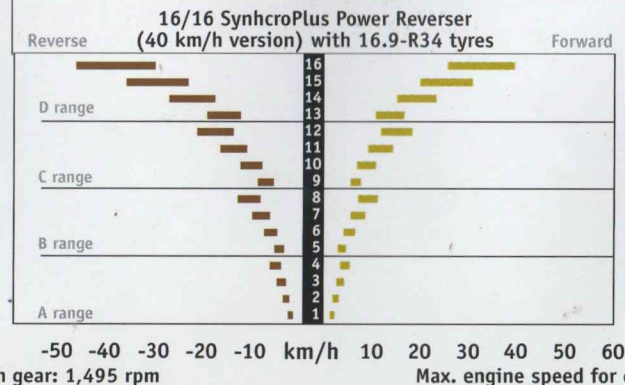
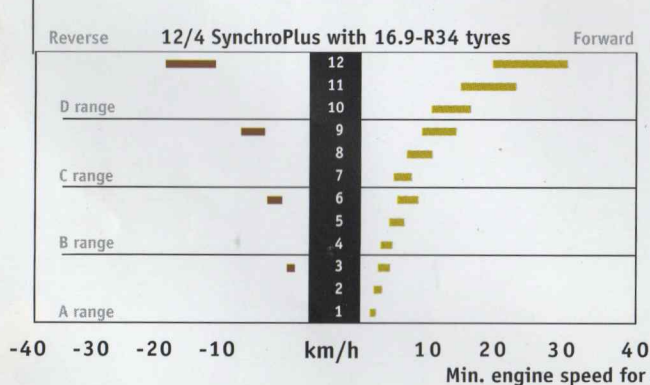
**Optional
16 speed
Power
Reverser
Transmission**

- Four fully synchronised speeds in each of four fully synchronised ranges
- Left hand power reverser lever lets you shuttle from forward to reverse and back without clutching
- Direction changes are fast and smooth
- Your right hand remains free to operate a loader
- Provides a corresponding reverse gear for every forward gear and an integrated park position
- Forward speeds up to 30 or 40 km/h
- Optional creeper for working speeds as slow as 250 m/h (not for low profile cab)
- Standard PermaClutch II wet disc clutch



**Optional
16 speed
PowrQuad
Transmission**

- Four powershiftable speeds in each of four fully synchronised ranges
- Right or left hand power reverser lever lets you shuttle from forward to reverse and back without clutching
- Provides a corresponding reverse gear for every forward gear
- Integrated park position
- Forward speeds up to 30 or 38 km/h
- Optional creeper for working speeds as slow as 250 m/h (not for low profile cab)
- Standard PermaClutch II wet disc clutch



The SE Cab

Step up to the economy comfort class

Compare cabs in this price range. We believe you'll settle on the John Deere SE tractor cab as the only choice for spaciousness, comfort and ease of operation.

Wide, sturdy steps lead to left and right hand doors. A thick, rubber floor mat dampens noise and vibration.

The standard Comfort seat is mechanically suspended. The arm-rest, backrest and suspension are fully adjustable to customise the ride for different operators. Horizontal suspension assures a comfortable ride, even when operating on the most uneven terrain. You can also opt for the AirComfort seat. This seat features air suspension, individually adjustable arm-rests and a full range of horizontal and vertical adjustments including lumbar support.

Full door windows provide outstanding visibility to the side for manoeuvring in confined areas.

A passenger seat is optional.

Audio Equipment (UK & Ireland only). Supplied standard with Blaupunkt Caracas Radio/Cassette Player (or equivalent Blaupunkt model).

Alternative premium Blaupunkt models are available; ask your dealer for details.

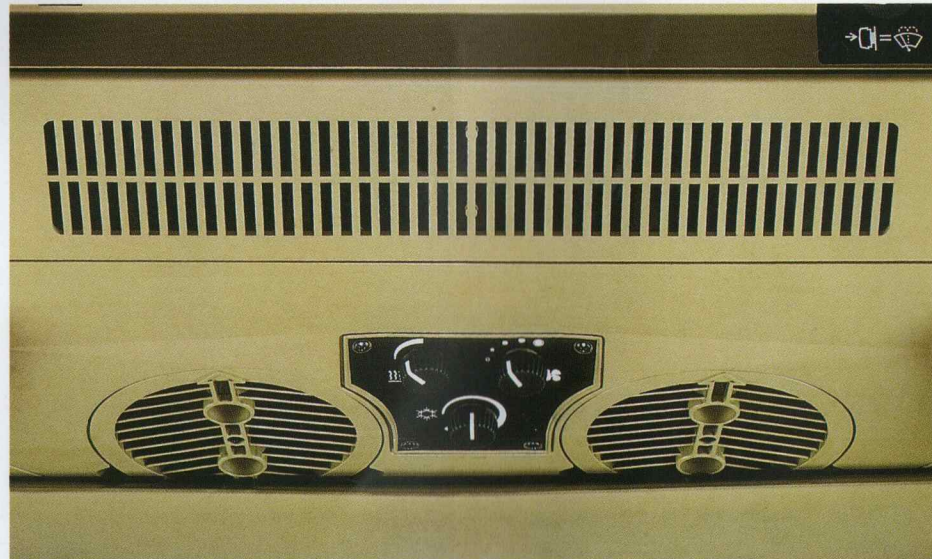




Tilt steering is standard to ensure a relaxed driving position for any operator.

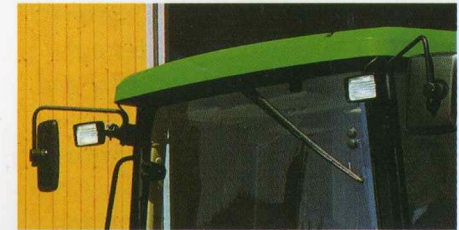
The right hand control console logically groups the hand throttle and transmission levers. A rocker switch for engaging 4WD is positioned just in front of the electro-hydraulic hitch control. SCV levers are adjacent to the hitch control. PTO controls are located to the rear of the console for easy reach when looking rearward to implements.

Standard SE instrumentation provides a precise, stepper-motor-driven speed gauge to the left and an engine rpm gauge to the right, including PTO speed information. An easy to read row of warning lights across the top monitor all important tractor functions.



Standard heating and optional air conditioning systems are located at the front of the roof. Large vents allow high capacity airflow to the front window or operator. Temperature and fan controls feature roof mounted dials for convenience.

The low profile cab option is perfect for low buildings and doors. With its lowered operator platform, this cab stands 105 mm lower than the standard cab, providing an overall height as low as 2.5 m, depending on tyre size.



Two front mounted work lights are standard. A tilt front windshield is optional on all cabs*.

*Not available in the UK & Ireland



The perfect blend of versatility and economy

The exceptional hydraulic system on 6010 SE tractors provides outstanding performance for dairy and smaller mixed farms.

This load sensing system with constant flow pump is both economical and versatile. Instant, precise response allows fast steering corrections and provides effective lower link sensing. Sufficient, continuous flow and pressure ensures quick cycles and effortless steering at low engine rpm. Simultaneous tasks, like raising a front loader while rolling the bucket back and steering are handled easily.

A constant flow gear pump delivers a maximum flow of 54 L/mn. Full pump capacity is constantly on standby in a short-circuit

The precise electrohydraulic hitch control lets you preset working depth, raise height and rate of drop. To raise and lower the hitch, just press the rocker switch. Simple.

system. Pressure control valves receive various hydraulic demands through load sensing lines. When multiple hydraulic functions are needed, the demand with the highest operating pressure controls the working pressure. On conventional open centre systems, there is no load sensing system. The function with the lowest pressure demand controls the working pressure. Sequential cycles take more time and reduce productivity.



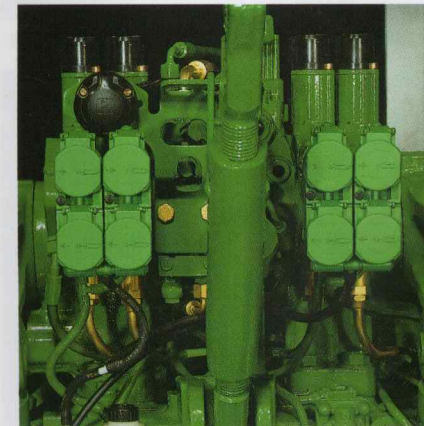


The rugged hitch lifts loads as heavy as 52.6 kN (6410 SE). A fender mounted remote switch makes implement attachment easier.



Standard hitch dampening prevents the tractor from pitching when transporting heavy hitch mounted implements.

For the ultimate in productivity, a John Deere loader is your only choice. Only a John Deere loader is designed as an integral part of the tractor and perfectly matches the tractor's load carrying capability.



The SCVs provide four position lever control and flow of up to 54 l/mn.



For loader work or front mounted implements, a mid mounted independent control valve (MCV) and single lever joystick are available. This lets you control all functions with one hand.

The mid mounted independent control valve eases hydraulic line attachment for loaders and front mounted implements.



Specifications

Check the details

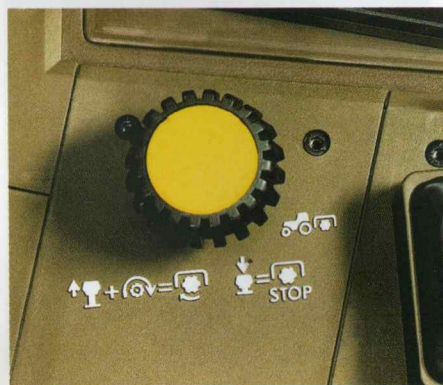
The 6010 SE tractors are truly economical taskmasters. They share many of the same specifications and features as the premium 6010 Series line. For most mid sized family farms, dairy operations and general utility chores, 6010 SE tractors are equipped perfectly for many applications.



Standard hydrostatic power steering provides effortless control, even while raising the loader.



Tight turning 4WD provides extra traction in slick conditions. Caster action tilts and tucks the tyres under the frame for tight turns.



The PTO is engaged with a simple dial located on the right hand console. Just raise and turn past the detent for smooth engagement. To stop, just push the dial down.

6010SE

6110SE

6210SE

Engine Performance (ECE-R24 at rated speed)

Power with viscous fan drive	kW (hp)	55 (75)	59 (80)	66 (90)
Extra Power at PTO	kW (hp)	1.5/2.0	2.0/2.8	2.1/2.9

Engine

Number of cylinders/displacement	cm ³	4/4530	4T/4530	4T/4530
Bore/stroke	mm	106.5/127	106.5/127	106.5/127
Rated speed	rpm	2300	2300	2300
Max. torque	Nm	302	327	364.5
Engine speed at max. torque	rpm	1300	1495	1495
Torque reserve	%	34	33.5	33
Constant power range	rpm	250	460	460
Optimum fuel consumption (factory-obs.)	g/kWh	210	203	202

Cooling	.....Liquid, closed system, maintenance-free.....
Fan	.....Viscous drive, collar type.....
Fuel injection pump	.....Multi piston distributor type.....
Air cleanerDry type with safety element, quick release.....

Clutch

ClutchOil-cooled Perma Clutch II, 225 mm discs.....
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Transmission

SynchroPlusFully synchronised transmission incl. reverser.....
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12/4 - 2.3 to 30 km/h	●	●	●
Power Reverser TransmissionFully synchronised transmission incl. true power reverser ..		

.....with neutral position/left hand controlled.....	●/●	●/●	●/●
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16/6 - 1.8 to 30 km/h / 2.4 to 40 km/h	●/●	●/●	●/●
PowrQuad**)With 4 powershift gears, incl. true power reverser.....		

.....with neutral position/right or left hand controlled.....	●/●	●/●	●/●
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16/16 - 2.4 to 30 km/h / 2.9 to 38 km/h	●/●	●/●	●/●
---	-----	-----	-----

Differential lockElectro-hydraulically actuated, oil-cooled multi disc.....
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CreepReduction ratio 10:1.....
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Speeds for SynchroPlus (F/R)	9/3	9/3	9/3
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Speeds for Power Reverser Transmission (F/R)12/12 (not for low profile cab).....
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Speeds for PowrQuad (F/R)12/12 (not for low profile cab).....
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PTO - rear

PTO ClutchIndependent oil-cooled multi-disc,
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.....electro-hydraulically actuated.....	●	●	●
--	---	---	---

PTO Versions	●	●	●
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540 rpm	●	●	●
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540/1000 rpm, exchangeable with reversible	●	●	●
--	---	---	---

6 and 21 spline shaft	●	●	●
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540/1000 rpm, shiftable with reversible	●	●	●
---	---	---	---

6 and 21 spline shaft	●	●	●
-----------------------	---	---	---

540/540E/1000 rpm, shiftable with reversible	●	●	●
--	---	---	---

6 and 21 spline shaft	●	●	●
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Engine speeds at rated PTO speed	rpm	2124	2124	2124
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540	rpm	2143/2208	2143/2208	2143/2208
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540/1000	rpm2143/1684/2208.....
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540/540E/1000	rpm
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PTO - front

PTO ClutchIndependent oil-cooled multi-disc,
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.....electro-hydraulically actuated.....
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PTO speed	rpm	1000	1000	1000
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Engine speed at rated 1000 rpm PTO	rpm	2185	2185	2185
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Stubshaft/No. of splines (front view)**)21 clockwise/6 counter clockwise
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Free rotation of PTO shaft60° for PTO shaft indexing.....
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Brakes

TypeOil-cooled disc, hydraulically actuated,
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.....self-adjusting, self-equalising.....
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.....Independently operated, oil-cooled.....
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HandbrakeLoad sensing with constant flow pump.....
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Hydraulic system
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Type
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Pump capacity	l/min	54	54	54
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Max. pressure	bar	200	200	200
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* In preparation for LP-cab models

** For UK and Ireland: all models are available either with 6-spline/counter clockwise or 21 spline/clockwise.

6310SE

6410SE

74 (100) 2.5/3.4	77 (105) 2.6/3.5
4T/4530 106.5/127 2300 402.6 1495 31 460 203	4T/4530 106.5/127 2300 429.4 1495 34.3 460 206
.....Liquid, closed system, maintenance-free.....	.....Liquid, closed system, maintenance-free.....
.....Viscous drive, collar type.....	.....Viscous drive, collar type.....
.....Multi-piston distributor type.....	.....Multi-piston distributor type.....
.....Dry type with safety element, quick release.....	.....Dry type with safety element, quick release.....
.....Oil-cooled Perma Clutch II, 225 mm discs.....	.....Oil-cooled Perma Clutch II, 225 mm discs.....
.....Fully synchronised transmission incl. reverser.....	.....Fully synchronised transmission incl. reverser.....
.....Fully synchronised transmission incl. true power reverser.....	.....Fully synchronised transmission incl. true power reverser.....
.....with neutral position/left hand controlled.....	.....with neutral position/left hand controlled.....
.....With 4 powershift gears, incl. true power reverser.....	.....With 4 powershift gears, incl. true power reverser.....
.....with neutral position/right or left hand controlled.....	.....with neutral position/right or left hand controlled.....
.....Electro-hydraulically actuated, oil-cooled multi disc.....	.....Electro-hydraulically actuated, oil-cooled multi disc.....
.....Reduction ratio 10:1.....	.....Reduction ratio 10:1.....
9/3	9/3
.....12/12 (not for low profile cab).....	.....12/12 (not for low profile cab).....
.....12/12 (not for low profile cab).....	.....12/12 (not for low profile cab).....
.....Independent oil-cooled multi-disc,.....	.....Independent oil-cooled multi-disc,.....
.....electro-hydraulically actuated.....	.....electro-hydraulically actuated.....
.....2124 2143/2208	.....2124 2143/2208
.....2143/1684/2208.....	.....2143/1684/2208.....
.....Independent oil-cooled multi-disc,.....	.....Independent oil-cooled multi-disc,.....
.....electro-hydraulically actuated.....	.....electro-hydraulically actuated.....
1000	1000
2185	2185
.....21 clockwise/6 counter clockwise.....	.....21 clockwise/6 counter clockwise.....
.....60° for PTO shaft indexing.....	.....60° for PTO shaft indexing.....
.....Oil-cooled disc, hydraulically actuated,.....	.....Oil-cooled disc, hydraulically actuated,.....
.....self-adjusting, self-equalising.....	.....self-adjusting, self-equalising.....
.....Independently operated, oil-cooled.....	.....Independently operated, oil-cooled.....
.....Load sensing with constant flow pump.....	.....Load sensing with constant flow pump.....
54	54
200	200

Three-point hitch – rear

Type of lower links	.....Ball-type or hook-type quick coupler.....
Category	II
Hitch response/features	.....Electronic lower link sensing/self diagnosis, hitch dampening.....
Sensing modes	.....Load & depth control, infinite mix, float.....
Remote hitch control	Fender-mounted
Max. lift capacity	kN 39.9

Selective Control Valves

Type	.....Spool type, single and double acting, 101- or 201-series.....
Max. number of SCVs	4

Steering

Type, 4WD and 2WD	.....Hydrostatic steering.....
Two-wheel drive	.....Oil-cooled, engage/disengage on-the-go, under full load.....
Four-wheel drive	.....Self-locking differential.....
Clutch	.....Turning radius without brakes (4WD).....
Caster angle	12°
Steering angle	52°
Differential lock	.....Electrical System.....
Turning radius without brakes (4WD)	m 4.41

Electrical System

Alternator	A 90
Batteries	Ah 110
Starter	kW 3.0

Capacity

Fuel tank	l 165 (116 for LP)
Hydraulic/transmission oil	l 55
Cooling fluid	l 13.5
Crankcase	l 12

Cab

Number of doors	2
Angle of allround vision	310°
Full length roof hatch	.....Front or rear hinged/2 opening positions.....
Climate control	.....4-speed blower, heating/air conditioning (opt.).....
Air distribution	.....Adjustable air vents, roof-mounted.....
Sound level under full load	dB(A) 75
Adjustable steering wheel	Tilttable

Chassis

Structure	.....Full-frame, rigid steel bridge type.....
Drive train assembly	Modular units
Dimensions	mm 12.4 R24
Tyre size/tread setting	16.9 R30/1712
Wheelbase	mm 2400
Length (with base weight)	mm 4124
Height	mm 2593
Height (LP version)	mm 2488
Width	mm 2175

Weight

Minimum shipping weight – 4WD	kg 3862
Maximum permissible weight	kg 7000
Maximum payload	kg 3138

Oil cooled disc brakes provide sure stopping power, even when towing heavy trailers.



6010SE

6110SE

6210SE

6310SE

6410SE

.....Ball-type or hook-type quick coupler.....	II	II	II	II
.....Electronic lower link sensing/self diagnosis, hitch dampening.....	.....Load & depth control, infinite mix, float.....	.....Load & depth control, infinite mix, float.....	.....Load & depth control, infinite mix, float.....	.....Load & depth control, infinite mix, float.....
Fender-mounted	Fender-mounted	Fender-mounted	Fender-mounted	Fender-mounted
kN 39.9	39.9	39.9	45.9	52.6
.....Spool type, single and double acting, 101- or 201-series.....	4	4	4	4
.....Hydrostatic steering.....	.....Oil-cooled, engage/disengage on-the-go, under full load.....	.....Oil-cooled, engage/disengage on-the-go, under full load.....	.....Oil-cooled, engage/disengage on-the-go, under full load.....	.....Oil-cooled, engage/disengage on-the-go, under full load.....
.....Self-locking differential.....	.....Turning radius without brakes (4WD).....	.....Turning radius without brakes (4WD).....	.....Turning radius without brakes (4WD).....	.....Turning radius without brakes (4WD).....
m 4.41	4.41	4.41	4.41	4.41
Alternator	A 90	90	90	90
Batteries	Ah 110	110	110	110
Starter	kW 3.0	3.0	3.0	3.0
Fuel tank	l 165 (116 for LP)	165 (116 for LP)	165 (116 for LP)	165 (116 for LP)
Hydraulic/transmission oil	l 55	55	55	55
Cooling fluid	l 13.5	13.5	13.5	13.5
Crankcase	l 12	12	12	12
Number of doors	2	2	2	2
Angle of allround vision	310°	310°	310°	310°
Full length roof hatch	.....Front or rear hinged/2 opening positions.....	.....Front or rear hinged/2 opening positions.....	.....Front or rear hinged/2 opening positions.....	.....Front or rear hinged/2 opening positions.....
Climate control	.....4-speed blower, heating/air conditioning (opt.).....	.....4-speed blower, heating/air conditioning (opt.).....	.....4-speed blower, heating/air conditioning (opt.).....	.....4-speed blower, heating/air conditioning (opt.).....
Air distribution	.....Adjustable air vents, roof-mounted.....	.....Adjustable air vents, roof-mounted.....	.....Adjustable air vents, roof-mounted.....	.....Adjustable air vents, roof-mounted.....
Sound level under full load	dB(A) 75	75	75	75
Adjustable steering wheel	Tilttable	Tilttable	Tilttable	Tilttable
Structure	.....Full-frame, rigid steel bridge type.....	.....Full-frame, rigid steel bridge type.....	.....Full-frame, rigid steel bridge type.....	.....Full-frame, rigid steel bridge type.....
Drive train assembly	Modular units	Modular units	Modular units	Modular units
Dimensions	mm 12.4 R24	12.4 R24	12.4 R24	13.6 R24
Tyre size/tread setting	16.9 R30/1712	16.9 R30/1712	16.9 R30/1712	16.9 R34/1716
Wheelbase	mm 2400	2400	2400	2400
Length (with base weight)	mm 4124	4124	4124	4144
Height	mm 2593	2593	2593	2643
Height (LP version)	mm 2488	2488	2488	2538
Width	mm 2175	2175	2175	2179
Minimum shipping weight – 4WD	kg 3862	3872	3958	4048
Maximum permissible weight	kg 7000	7000	7000	8000
Maximum payload	kg 3138	3128	3042	3922

Routine maintenance is easy

Daily maintenance is important for the long term performance of your tractor. So John Deere makes it easy for you to perform these tasks. Almost every area that requires maintenance is accessible from ground level and without tools. A handy maintenance chart is even included inside the right hand engine compartment door.

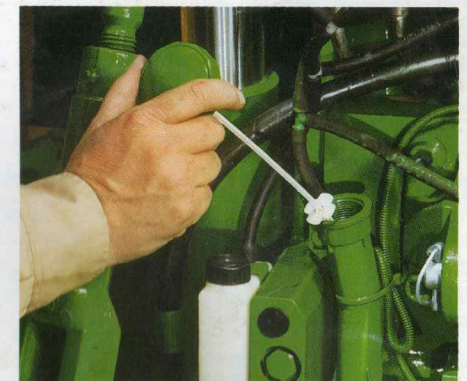
Should your tractor ever require expert dealer service, the cab tilts out of the way without disturbing important lines and harnesses.



Just raise and prop the hood and remove the front panel for access to the battery.



The air cleaner can be inspected by simply raising the hood.



Hydraulic/transmission oil is easily checked and filled at the rear of the tractor.



The coolant tank is easily reached with the hood propped open.



Engine oil levels and filter can be checked or changed by opening the right hand engine compartment door.



The fuel filter is behind the left hand engine compartment door.



**RELIABILITY
IS OUR STRENGTH**