



Width: 266cm; Length: 581cm (with front linkage); Height: 323cm

Technical data, test results

John Deere 6250R

Technical data

**Engine:** 184kW/250hp (to 97/68EC) at 2,100rpm; max boosted output is 221kW/300hp; water-cooled six-cyl. DPS PowerTech PSS, Stage IV (Tier 4f) with DPF, DOC and SCR, turbo, intercooler; 6.8-litre displacement, 470-litre fuel tank, 25-litre AdBlue tank

**Transmission:** Infinitely variable ZF Ecom 2.9 gearbox, four auto-changing travel ranges, powershuttle, cruise control; 40km/hr at 1,300rpm, 50km/hr at 1,630rpm, up to 33km/hr in reverse

**Brakes:** Wet disc brakes at front and rear with four-wheel drive, auto park brake; optional air brake system

**Electrics:** 12V, 174amps battery, 200amps alternator, 3.8kW/5.1hp starter power

**Linkage:** Cat. II/III, ELC with draft link control, optional front linkage and pto (115kW)

**Hydraulics:** 160l/min (at 1,500rpm) swash plate pump, 200 bar, up to nine spools (six rear/three front), electronic timing/flow control; 80-litre oil reserve

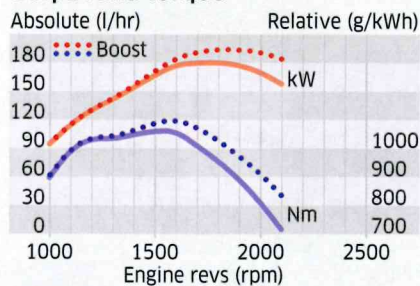
**Pto:** 540/540E/1,000 or 540E/1,000/1,000E, 1 1/2in stub, six or 21 splines, electro-hydraulic engagement

**Axles and running gear:** Floating axle (flanged axle is standard), multi-plate diff lock and 4WD, both electro-hydraulically engaged, 600/70 R30 front and 710/70 R42 rear tyres

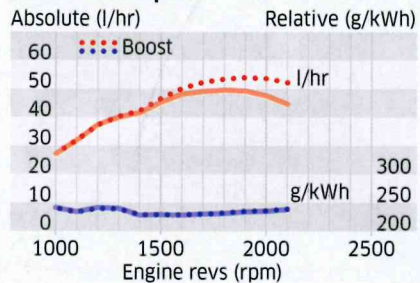
**Service and maintenance:** 19.5 litres of engine oil (oil change intervals: 750 hours); 160 litres of transmission/hydraulic oil (1,500 hours), 28-litre cooling system

**Price:** Base spec £197,904, 'CommandPro' armrest £926, front pto £3,331, auto steering using StarFire 6000 with SF3 £6,403.

Output and torque



Fuel consumption



Results from test station

**Pto output** (no boost/boosted)  
Max (1,800rpm) 179.9/193.7kW  
At rated speed 157.1/183.5kW

**Diesel/AdBlue consumption** (no boost/boosted)  
Max output 230+11.7/231+12.1g/kWh  
At rated speed 237+9.5/238+7.4g/kWh  
Absolute max/at rated 49.3/44.4l/hr/53.3/52.0l/hr

**Torque** (no boost/boosted)  
Max 1,060/1,100Nm (1,600rpm)  
Torque rise 48/32%  
Engine speed drop 24%  
Start-off torque 125/108%

**Transmission**  
No. of gears in 4-12km/hr range Stepless

**Rear lift capacities** (90% max oil pressure, cor.)  
Bottom/middle/top 7,353/9,318/10,323daN  
Lift range under load 75.5cm (23.5-99.2cm)

**Front lift capacities** (90% max oil pressure, cor.)  
Bottom/middle/top 4,347/4,662/5,481daN  
Lift range under load 80.0cm (13.3-93.3cm)

**Hydraulic output**  
Operating pressure 205 bar  
Max flow 161.1l/min  
Max output 42.5kW (147l/min, 173 bar)

**Drawbar power**  
Max (1,800rpm) 166.6kW (252.0g/kWh)  
At rated speed 149.3kW (258.0g/kWh)

**Noise level** (under load at driver's ear)  
Cab closed/open 72.6/82.3dB(A)

**Braking**  
Maximum mean deceleration 4.8m/s<sup>2</sup>  
Pedal force 25.9daN

**Turning circle**  
Four-wheel drive disengaged 13.70m

**Test weight**  
Front axle 3,780kg  
Rear axle 5,790kg  
Kerb weight 9,570kg  
Gross weight 15,000kg  
Max axle load (F/R) 6,900/11,400kg  
Payload 5,430kg  
Power-weight ratio 52kg/kW  
Wheelbase 290cm  
Track width front/rear 201/196cm  
Ground clearance 48.0cm

Fuel economy at typical performance

Working areas	Output	Speed	g/kWh	l/hr
Standard pto shaft 540	100%	1,950	234	53.6
Economy speed pto 540E	100%	1,721	229	52.4
Standard speed pto 1,000rpm	100%	1,950	234	53.6
Economy pto 1,000E rpm	100%	1,659	229	52.4
Engine in top speed range	80%	max	240	41.9
High output	80%	90%	233	40.8
Transport work	40%	90%	263	23.0
Low output, 1/2 speed	40%	60%	245	21.5
High output, 1/2 speed	60%	60%	235	30.9

Test results

**Engine**   
Performance characteristics 1.3  
Fuel consumption 1.3  
Pto output/drawbar power 1.1  
Very good performance characteristics, excellent fuel economy, very good drawbar power and pto output (even when boosted).

**Transmission**   
Gearbox ratios/functions 1.0  
Shifting 1.3  
Clutch, throttle 1.3  
Pto 1.8  
New 'CommandPro' joystick with active standstill, cruise control, auto 'park', engine/transmission control – all first rate; powershuttle on steering column and armrest; three pto speeds.

**Axles and running gear**   
Steering 1.8  
Four-wheel drive and diff lock 1.1  
Hand- and footbrake 1.1  
Front axle-/cab suspension 2.0/1.5  
Weight and payload 1.5  
Good GPS system, good brakes, high operator comfort; front axle suspension is not soft enough, average turn, high payload.

**Linkage/hydraulics**   
Lift power and lift height 1.1  
Operation 1.8  
Hydraulic output 2.0  
Spool valves 1.3  
Hydraulic couplers 1.0  
Very good lift force; good hydraulic output, a more powerful pump is not an option; very good spools and couplers at the rear.

**Cab**   
Space and comfort 1.2  
Visibility 1.8  
Heating/ventilation 1.9  
Noise level 1.4  
Electrics 1.5  
Build quality 1.5  
Maintenance 1.5  
Space, build quality and comfort are top-notch; noise level under load is good; no vents at head level, excellent display, small wiper field.

**Ability**   
Basic standards   
Average standards   
High standards   
Field work   
Grassland work   
Transport work   
Loader work

**Price**   
£150,000 to £160,000  
Typical farmer buying price after discount excl VAT for good-spec John Deere 6250R  
Grading system:  
 = very good, = good, = average, = below average, = poor  
The individual marks are extracts from our assessments and do not necessarily result in a mathematically conclusive overall mark.

# Three tractors in comparison

This is a comparison of three similar hp tractors that have been tested by profi in past magazines



Tractor	John Deere 6250R	Claas Axion 850	Fendt 828 Vario
Test report in issue	profi 6/2018	profi 5/2015	profi 4/2015
<b>Engine</b>	Rated output 184kW/250hp (97/68 EC)	184kW/250hp (ECE-R 120)	206kW/280hp (ECE-R 24)
No. of cylinders/capacity	Six/6.8 litres/IV (Tier 4 f)	Six/6.7 litres/IV (Tier 4 f)	Six/6.1 litres/IV (Tier 4 f)
Max pto output	179.9/193.7kW (1,800rpm)	180.8kW (1,800rpm)/no boost	195.5kW (1,800rpm)/no boost
At rated engine speed	157.1/183.5kW (2,100rpm)	167.5kW (2,150rpm)	193.6kW (2,100rpm)
Manufacturer/model	DPS/PowerTech PSS	FPT/NEF 6	Deutz/TTCD 6.1 L6
<b>Fuel and AdBlue consumption</b>			
Specific at max power	230 + 11.7g/kWh	216 + 19.3g/kWh	223 + 9.4g/kWh
Specific at rated speed	237 + 9.5g/kWh	226 + 20.6g/kWh	237 + 9.6g/kWh
Absolute at max power	53.3l/hr	46.4l/hr	52.0l/hr
Average Powermix + AdBlue rates	257 + 10.8g/kWh	248 + 21.5g/kWh	248 + 14.1g/kWh
Max torque	1,060/1,100Nm (1,600rpm)	1,070Nm (1,400rpm)	1,190Nm (1,300rpm)
Torque rise ...	48/32%	44%	35%
... as speed drops by	24/24%	35%	38%
Fuel/AdBlue tank capacity	470/25 litres	455/42 litres	500/50 litres
<b>Transmission</b>	No. of gears Stepless	24/24	Stepless
Powershift steps	Stepless	Six	Stepless
Gear shifts	Stepless	Four	Stepless
No. of ranges	Stepless	-	Two ranges
Pto speeds	540/540E/1,000 or 540E/1,000/1,000E	540/540E/1,000 or 540E/1,000/1,000E	540E/1,000 or 1,000/1,000E
No. of gears in 4-12km/hr range	Stepless	Nine	Stepless
<b>Rear linkage</b>	Control system ELC with draft link control	ELC with draft link control	ELC with draft link control
Lift force bottom/middle/top	7,353/9,318/10,323daN	6,435/7,679/8,316daN	7,974/9,684/10,089daN
Lift range	75.5cm	81.0cm	81.6cm
<b>Hydraulics</b>	Operating pressure 205 bar	200 bar	200 bar
Max oil flow	161.1l/min	108.5l/min	207.0l/min
Max hydraulic output	42.5kW	31.1kW	58.4kW
Oil reserve	80 litres	50 litres	80 litres
<b>Drawbar power</b>	Max 166.6kW	162.0kW	164.8kW
At fuel consumption	252g/kWh	253g/kWh	262g/kWh
<b>Noise level</b>	Cab closed 72.6dB(A)	73.0dB(A)	77.3dB(A)
<b>Brakes</b>	Max mean deceleration 4.8m/s <sup>2</sup>	4.6m/s <sup>2</sup>	5.4m/s <sup>2</sup>
Pedal force	25.9daN	49.6daN	27.2daN
<b>Turning circle</b>	4WD disengaged 13.70m	12.90m	12.00m
<b>Test weight</b>	9,570kg	10,375kg	9,475kg
Front axle	3,780kg (39%)	4,510kg (44%)	3,770kg (40%)
Rear axle	5,790kg (61%)	5,865kg (56%)	5,705kg (60%)
Permissible GVWR	15,000kg	14,000kg	16,000kg
Payload	5,430kg	3,625kg	6,525kg
Power-weight ratio	52kg/kW	56kg/kW	45kg/kW
<b>List price (excl VAT):</b>	£197,904 (as at June 2018)	£159,850 (as at March 2015)	£194,205 (as at February 2015)
<b>(Manufacturer information)</b>			