



6R 250

## Key Specs

Engine Description - John Deere PowerTech PSS

Engine Displacement - 6.8 L

Rated Engine Power - 184.0 kW

Maximum engine power - 202.0 kW

Transmission Type - AutoPowr

Hydraulic pump rated output - 195 L (51.5 gal.)

Rear Hitch Category (SAE designation) - Category 3N

Base machine weight - 9300.0 kg

## Engine specifications

Engine Description - John Deere PowerTech PSS

Rated speed - 2100.0 rpm

Aspiration - Dual turbochargers, variable geometry turbocharger and fixed turbo in series

Cylinders liners - Six

Emission level - Stage V

After treatment type - Lifetime diesel particle filter (DPF), diesel oxidation catalyst (DOC), and selective catalytic reduction (SCR) using diesel exhaust fluid (DEF)

Engine Displacement - 6.8 L

## Engine performance

Rated Engine Power - 184.0 kW

Maximum PTO power - 180.0 kW

Maximum engine power - 202.0 kW

## Engine performance

Engine peak torque - 1171.0 Nm

PTO torque rise - 40.0 %

## Transmission

Transmission Type - AutoPowr

Reverser - Electrical

Clutch - wet/dry - Wet

Creeper - Available

## Hydraulic system

Type - Pressure-and-flow compensated (PFC) system with load sensing function

Hydraulic pump rated output - 195 L (51.5 gal.)

Available flow at a single rear SCV - 116.0 L/min

Number of rear selective control valves (SCVs) - M-SCVs: Four  
E-SCVs: Six

Number of mid selective control valves (SCVs) - Three

Number of front selective control valves (SCVs) - One

Joystick SCV control - Mid/rear

SCV control - Mechanical/electrical

## Rear hitch

Remote control valves available - Yes, third

Rear Hitch Category (SAE designation) - Category 3N

Maximum lift capacity behind lift points - 10400.0 kg

Sensing type - Electronic lower link sensing; load and depth control, infinite mix, float

Rear axle differential lock - Electrohydraulic with oil-cooled clutch

## Drawbar

Drawbar category - Category 3

Maximum vertical load - 2100.0 kg

## Rear Power Take-off (PTO)

Type - Electrohydraulically engaged, oil-cooled, multi-disc design

Engine rpm (at rated PTO speeds) - 1950.0 rpm

## Rear Power Take-off (PTO)

Multispeed PTO option availability - 540/540E/1000 or 540/1000/1000E

PTO actuation - Electrohydraulically engaged

## Front hitch

Category - Category 3N

Standard lift capacity - 5000.0 kg

Front power take-off - Option

PTO speed - 1000.0 rpm

## Rear axle

Type - Flange axle/rack and pinion axle

Final drive type - Three planetary gear reduction

Brakes, type and control - Oil-cooled, self-equalizing, self-adjusting, and hydraulically actuated

Rear differential lock - Electrohydraulic with oil-cooled clutch

Load rating - 8270.0 kg

## Front axle

Front axle differential lock - Self-locking differential

Load rating - 7280.0 kg

## Tires

Rear - 800/70R38 (SRI 975)

## Steering

Type - Dynamic load sensing, hydrostatic, flow metering, Variable Ratio Steering optional

## Operator station

Cab suspension - Mechanical cab suspension (MCS), Adaptive Hydraulic Cab Suspension (HCS) Plus optional

Instructional seat - Suspended/unsuspended

Display - 21.3 cm

Inner cab volume - 3.3 3 $\text{m}^3$

dB(A) rating - 70 dBA

Cab glass area - 6.11 3 $\text{m}^2$

## Dimensions

Wheelbase - 2900.0 mm

Overall length - 5190.0 mm

Overall height - 3250.0 mm

## Weight

Base machine weight - 9300.0 kg

Base machine weight - Front axle - 3700.0 kg

Base machine weight - Rear axle - 5600.0 kg

Maximum permissible weight - 15000.0 kg

## Capacities

Crankcase oil volume - 23.5 L

Fuel tank capacity - 470/410 L (124.2/108.3 gal.)

Diesel exhaust fluid (DEF) tank - 25.0 L

Cooling system - 34.0 L

Coolant type - Cool-Gard™ II

Degree of freeze protection - Cool-Gard II 60/40: -52 °C (-62 °F)

Transmission-hydraulic system - 195.0 L

## Serviceability

Interval for engine oil change - 750.0 hr

Interval for hydraulic/transmission oil change - 1500.0 hr

Interval for engine coolant change - 6000.0 hr

## Additional information

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