

6R 145

Key Specs

Engine Description - John Deere PowerTech™ PVS
Engine Displacement - 6.8 L
Rated Engine Power - 107.0 kW
Maximum engine power - 117.0 kW
Transmission Type - AutoQuad PLUS, AutoQuad PLUS ECO Shift, AutoPowr, DirectDrive
Hydraulic pump rated output - 114/155 L (30/41 gal.)
Base machine weight - 7900.0 kg

Engine specifications

Engine Description - John Deere PowerTech™ PVS
Rated speed - 2100.0 rpm
Aspiration - Variable geometry turbocharger
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 - 107.0 kW
Maximum PTO power - 116.0 kW
Maximum engine power - 117.0 kW
Engine peak torque - 679.0 Nm

Engine performance

PTO torque rise - 40.0 %

Transmission

Transmission Type - AutoQuad PLUS, AutoQuad PLUS ECO Shift, AutoPowr, DirectDrive

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 - 114/155 L (30/41 gal.)

Available flow at a single rear SCV - 100.0 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

Maximum lift capacity behind lift points - 8100.0 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 2

Maximum vertical load - 1600.0 kg

Rear Power Take-off (PTO)

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

Engine rpm (at rated PTO speeds) - 1987.0 rpm

Multispeed PTO option availability - 540/540E/1000

PTO actuation - Electrohydraulically engaged

Front hitch

Category - Category 3N

Standard lift capacity - 4000.0 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 - 7270.0 kg

Front axle

Front axle differential lock - Self-locking differential

Load rating - 6160.0 kg

Tires

Rear - 710/70R38 (200)

Steering

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

Electrical System

Type of bulb in headlight (Halogen, Zenon, LED) - AutoQuad PLUS, AutoQuad PLUS ECO Shift, AutoPowr, CommandQuad PLUS ECO Shift Watt

Operator station

Degree of seat swivel, left hand - 7.5 degrees

Degree of seat swivel, right hand - 15.0 degrees

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

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Instructional seat - Suspended/unsuspended

Inner cab volume - 3.3 3¥

dB(A) rating - 70 dBA

Operator station

Cab glass area - 6.113¡

Dimensions

Wheelbase - 2765.0 mm

Overall length - 4930.0 mm

Overall height - 2950.0 mm

Weight

Base machine weight - 7900.0 kg

Base machine weight - Front axle - 7160.0 kg

Base machine weight - Rear axle - 4872.0 kg

Maximum permissible weight - 11250.0 kg

Capacities

Crankcase oil volume - 23.5 L

Fuel tank capacity - 199/255 L (52.6/67.4 gal.)

Fuel tank capacity - 322.0 L

Diesel exhaust fluid (DEF) tank - 16.0 L

Cooling system - 27.4 L

Coolant type - Cool-Gard™ II

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

Transmission-hydraulic system - 63.0 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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