



872G 6WD SPECIFICATIONS



ENGINE

Manufacturer and Model
John Deere PowerTech™ 9.0 L

Non-Road Emission Standard
EPA Tier 2/EU Stage II

Cylinders
6

Displacement
9,0 L (548 cu. in.)

Net Engine Power

Gear 1	168 kW (225 hp)
Gear 2	179 kW (240 hp)
Gear 3	190 kW (255 hp)
Gear 4	198 kW (265 hp)
Gear 5	201 kW (280 hp)
Gear 6	209 kW (280 hp)
Gear 7	209 kW (280 hp)
Gear 8	209 kW (280 hp)*

Net Peak Torque
1 329 Nm (980 lb.-ft.)

Net Torque Rise
48%

Aspiration
Turbocharged, charge-air cooled

Lubrication
Full-flow spin-on filter and integral cooler

Air Cleaner with Restriction Indicator
Dual element, dry

*6WD not available

COOLING

Engine Coolant, Extended Life, Rating:
-37 deg. C (-34 deg. F)

POWERTRAIN

6-Wheel Drive
Automatic dual-path hydrostatic drive; increases tractive effort and front-end control; includes separate left and right systems with variable-displacement pumps, axial-piston wheel motors, and freewheel at transport speeds; operator-selectable 15-position rotary aggressiveness control and inching capability down to 0 mph; precision mode (propelled by front wheels only)

Effective Gears
1-7 forward and reverse

Precision Mode
Effective Gears: 1-3 forward only

Operating Speeds:
0,4 - 8,0 km/h (0.25-5.0 mph)

Hydrostatic Pumps (2 each)
60 cm³ (3.7 cu. in.)

Wheel Motors
60 cm³ (3.7 cu. in.)

Final Reduction
38,7:1

Transmission

Direct-drive John Deere PowerShift Plus™, modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; independent transmission reservoir with separate filtration and cooling system with 121-L/min. (32 gpm) gear pump

Gears
Forward 8
Reverse 8

Maximum Travel Speeds
No tyre slip at 2 180 rpm

Gear 1	3,9 km/h (2.4 mph)
Gear 2	5,6 km/h (3.5 mph)
Gear 3	7,9 km/h (4.9 mph)
Gear 4	10,9 km/h (6.8 mph)
Gear 5	16,7 km/h (10.4 mph)
Gear 6	23,3 km/h (14.5 mph)
Gear 7	32,2 km/h (20.0 mph)
Gear 8	45,0 km/h (28.0 mph)

Front Axle
Heavy-duty welded fabrication

Oscillation (total)
32 deg.

Wheel Lean Angle (each direction)
20 deg.

Differentials
Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic differential lock

Steering (all models include steering wheel)
All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) option

Turning Radius (front steer and articulation)
7,21 m (284 in.) (23 ft. 8 in.)

Articulation (both right and left)
22 deg.

Final Drives
Inboard-mounted planetary sealed in cooled, filtered oil

Brakes
Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both independent systems effective on all 4 tandem wheels

Primary and Secondary Brakes
Hydraulically actuated, inboard of tandem pivot, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 3450)

Parking Brake
Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)

HYDRAULICS

Type
Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump

Maximum Pump Flow
218 L/min. (57.5 gpm)

Maximum System Pressure
18 961 kPa (2,750 psi)

Pump Displacement
90 cm³ (5.5 cu. in.)

BLADE FUNCTION

All-hydraulic, industry-standard lever placement of blade-function controls; includes float position; 7 discrete saddle positions

Blade Range
Lift Above Ground:
452 mm (17.8 in.)

Blade Side Shift (right or left):
683 mm (26.9 in.)

Pitch at Ground Line:
Forward 42 deg.
Back 5 deg.

Shoulder Reach Outside Wheels (frame straight, right or left):
2 329 mm (91.7 in.) (7 ft. 8 in.)

Bank Cut Angle (right or left):
90 deg.

BLADE PULL

At Maximum Operating Weight:
22 453 kg (49,500 lb.)

ELECTRICAL

Solid-state load center and sealed switch module

Voltage
24 volt

Number of Batteries
2

Battery Capacity
1 400 CCA

Reserve Capacity
440 min.

Amp-Hour Rating
224 amp-hour

Alternator Rating
Base: 100 amp
Optional: 130 amp

Lights
Driving lights; 2 high- and 2 low-beam halogen headlights; front and rear LED turn signals and marker lights; LED brake and hazard warning lights

MAINFRAME

Type
Welded box construction

Width (minimum):
307 mm (12.1 in.)

Height (minimum):
307 mm (12.1 in.)

Thickness:
Side: 16 mm (0.63 in.)
Top and Bottom Plate: 30 mm (1.17 in.)

Modulus:
Minimum Vertical Section:
1 770 cm³ (108 cu. in.)

Average Vertical Section at Saddle:
2 635 cm³ (161 cu. in.)

DRAFT FRAME (DRAWBAR)

Welded box construction machined for flatness with double ball-and-socket pivot connection equipped with quick-change replaceable wear inserts

CIRCLE

Welded construction, heat-treated, machined for flatness, equipped with quick-change replaceable wear inserts

Circle Diameter:
1 524 mm (60 in.)

Rotation:
360 deg.

Drive:
Hydraulic motor and worm gear with positive lock

Circle Side Shift (right and left):
787 mm (31 in.)

MOLDBOARD

High-strength, pre-stressed for higher strength, wear-resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable wear inserts and quick-adjust jackscrew system

Base Length:
4,88 m (16 ft.)

Height (measured along arc, including cutting edge):
686 mm (27 in.)

Thickness:
25 mm (1 in.)

CUTTING EDGE

Dura-Max™ through-hardened steel edge

Thickness:
19 mm (0.75 in.)

Width:
203 mm (8 in.)

SCARIFIERS

Type
Front: V-type toolbar with manual 2-pitch positions and hydraulic float.

Mid-Mount: Radial linkage, with NeverGrease™ pin joints

Width of Cut
 Front: 1,20 m (48 in.) (4 ft. 0 in.)
 Mid-Mount: 1,19 m (46.7 in.) (3 ft. 11 in.)

Number of Shanks/Teeth
 Front: 5 (maximum capacity 9)
 Mid-Mount: 11

Lift Above Ground
 Front: 589 mm (23.2 in.)

Mid-Mount: 335 mm (13.2 in.)

Maximum Depth
 Front: 335 mm (13.2 in.)

Mid-Mount: 325 mm (12.8 in.)

Shank: Spacing
 Front: 146 mm (5.75 in.)

Mid-Mount: 117 mm (54.6 in.)

Shank: Size
 Front: 25 x 76 mm (1 x 3 in.)

Mid-Mount: 25 x 76 mm (1 x 3 in.)

FRONT LIFT GROUP (BALDERSON-STYLE)

Parallel linkage, mechanical pins, and hydraulic float

Lift
 Above Ground (top of tube):
 1 864 mm (73.4 in.)

Range:
 988 mm (38.9 in.)

REAR RIPPER/SCARIFIER
 Parallel linkage, with NeverGrease pin joints, hydraulic float, and integrated hitch

Width of Cut
 Ripper: 2,21 m (87.2 in.) (7 ft. 3 in.)
 Scarifier: 2,18 m (86 in.) (7 ft. 2 in.)

Number of Shanks/Teeth
 Ripper: 3 (maximum capacity 5)

Scarifier: None standard (maximum capacity 9)

Lift Above Ground
 Ripper: 602 mm (23.7 in.)

Scarifier: 810 mm (31.9 in.)

Maximum Depth
 Ripper: 426 mm (16.8 in.)

Scarifier: 323 mm (12.7 in.)

Force at Typical FT4 Weight: Penetration
 Ripper: 10 328 kg (22,770 lb.)

Pry-Out
 Ripper: 14 404 kg (31,756 lb.)

Shank Size
 Ripper: 61,5 x 133 mm (2.42 x 5.25 in.)

Scarifier: 25 x 76 mm (1 x 3 in.)

OPERATOR STATION
 Low-profile cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005)

TYRES/WHEELS
Standard:
 17.5x25 L4
 • Wheel Tread on Ground:
 2,16 m (85.0 in.)
 • Overall Width:
 2,64 m (104.0 in.)
 • Ground Clearance (front axle):
 587 mm (23.1 in.)

SERVICEABILITY
Refill Capacities
 Fuel Tank:
 416,5 L (110 gal.)
 Cooling System:
 48,5 L (12.8 gal.)
 Engine Oil with Filter:
 27,0 L (7.1 gal.)
 Transmission Fluid:
 28,4 L (7.5 gal.)
 Differential Housing:
 38,0 L (10 gal.)
 Tandem Housings (each):
 74,0 L (19.5 gal.)

Circle Gearbox:
 5,7 L (1.5 gal.)
 Hydraulic Reservoir:
 53,0 L (14 gal.)

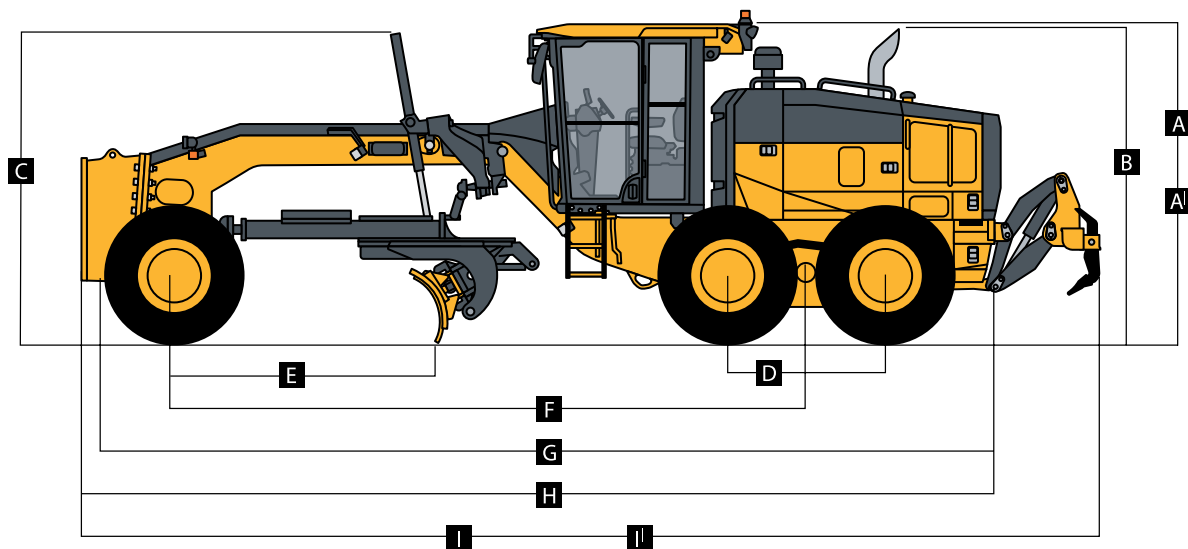
OPERATING WEIGHTS
 • With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x 3/4 in.) Cutting Edges, 17.5R25 L2 Tyres, and 79-kg (175 lb.)
Operator:
 Front: 5 103 kg (111,250 lb.)
 Rear: 12 242 kg (26,990 lb.)
 Total: 17 345 kg (38,240 lb.)

• Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment
 Front: 6 407 kg (14,124 lb.)
 Rear: 14 036 kg (30,944 lb.)
 Total: 20 443 kg (45,068 lb.)
 Maximum Operating Weight:
 24 948 kg (55,000 lb.)

MACHINE DIMENSIONS		
A	Height to Top of Cab	3,18 m (10 ft. 5 in.)
AI	Height to Top of Full-Height Cab	3,40 m (11 ft. 2 in.)
B	Height to Top of Exhaust	3,13 m (10 ft. 3 in.)
C	Height to Top of Blade-Lift Cylinders	3,05 m (10 ft. 0 in.)
D	Tandem Axle Spacing	1,54 m (5 ft. 1 in.)
E	Blade Base	2,53 m (8 ft. 4 in.)

continued...		
F	Wheelbase	6,16 m (20 ft. 3 in.)
G	Overall Length	8,89 m (29 ft. 2 in.)
H	Overall Length with Scarifier	9,69 m (31 ft. 9 in.)
I	Overall Length with Push Block and Ripper	9,99 m (32 ft. 9 in.)
I'	Overall Length with Scarifier and Ripper	10,59 m (34 ft. 9 in.)

For Overall Width see Tyres/Wheels



Option Weights

872G 4WD

Moldboards with Through-Hardened Dura-Max Cutting Edge

3,66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware	- 126 kg (- 278 lb.)
3,96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware	- 72 kg (- 159 lb.)
4,27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware	0 kg (0 lb.)
4,27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 19 mm (3/4 in.) hardware	9,5 kg (21 lb.)
4,88 m x 686 mm x 25 mm (16 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 19 mm (3/4 in.) hardware	137 kg (302 lb.)

Extensions, 610 mm (2 ft.) (right or left)

For Use with 686 mm (27 in.) Moldboards.....	120 kg (265 lb.)
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Overlay End Bits, Reversible (one pair)

For 152 mm (6 in.) Cutting Edge.....	19,5 kg (43 lb.)
For 203 mm (8 in.) Cutting Edge	23 kg (51 lb.)

Heavy-Duty Dual-Input Circle-Drive Gearbox.....

Circle-Drive Slip Clutch	14 kg (31 lb.)
Moldboard Impact-Absorption System	9 kg (20 lb.)
Ripper/Scarifier, Rear Mounted with Hitch and Ripper Shanks (3)	43 kg (95 lb.)
Scarifier Shanks with Teeth (9 for rear ripper/scarifier)	1 139 kg (2,510 lb.)
Ripper Shanks and Teeth (2)	68 kg (150 lb.)
Rear Counterweight with Integral Rear Hitch	63 kg (139 lb.)
Rear Hitch	727 kg (1,603 lb.)
Push Block, Front	54,4 kg (120 lb.)
	1 338 kg (2,950 lb.)

Scarifier

Front Mount with Teeth (5)	831 kg (1,833 lb.)
Mid-Mount with Teeth (11).....	1 481 kg (3,265 lb.)

Front Lift Group (Balderson-style)

	763 kg (1,682 lb.)
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Tyres

14.00-24, 12 PR G2	-272 kg (-600 lb.)
17.5-25, 12 PR G2/L2	-158 kg (-348 lb.)
14.00-R24, Radial, G2/L2 General Purpose	-52 kg (-114 lb.)
14.00-R24, Radial, G2/L2 Snow	-11 kg (-24 lb.)
17.5-R25, Radial, L2 General Purpose	0 kg (0 lb.)
17.5-R25, Radial, G2/L2 Snow.....	43,5 kg (96 lb.)
17.5-R25, Radial, G3/L3 General Purpose	90 kg (198 lb.)
550/65R25 XLD70 G3/L3 Radial, General Purpose	444 kg (978 lb.)

Multi-Piece Rims

254 mm x 610 mm (10 in. x 24 in.)	- 85 kg (- 188 lb.)
356 mm x 635 mm (14 in. x 25 in.).....	0 kg (0 lb.)
432 mm x 635 mm (17 in. x 25 in.).....	46 kg (102 lb.)

Fenders

Front	77 kg (169 lb.)
Rear	141 kg (310 lb.)

Cab, Low with Opening Front and Side Windows.....

Premium Air-Suspension, Heated Seat with Adjustable Arm- and Headrests.....	14,5 kg (32 lb.)
Coolant Heater.....	13 kg (28 lb.)
Quick Service	4 kg (9 lb.)
Sound-Absorption Package (machines equipped with Tier 3/Stage IIIA and Tier 2/Stage II engines only).....	11 kg (24 lb.)
Secondary Steering.....	14 kg (31 lb.)
Beacon Bracket	26 kg (58 lb.)
Fire Extinguisher	8 kg (18 lb.)
	14,5 kg (32 lb.)

Lighting Packages

10 Halogen Lights	4,5 kg (10 lb.)
16 Halogen Lights	7 kg (16 lb.)
18 Halogen Lights	8 kg (18 lb.)

High-Front Light Bar for Snowplowing.....

Auxiliary Hydraulic Control Valve Section and Controls	20 kg (44 lb.)
Hydraulics for Front-Mounted Equipment	7 kg (15 lb.)
	9 kg (19 lb.)