672G/GP

Engine	672G/GP		
Non-Road Emissions Standard	EPA Interim Tier 4/EU Stage IIIB	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II
Manufacturer and Model	John Deere PowerTech™ PSX 9.0 L	John Deere PowerTech™ Plus 9.0 L	John Deere PowerTech™ 6.8 L
Cylinders	6	6	6
Displacement	9.0 L (548 cu. in.)	9.0 L (548 cu. in.)	6.8 L (414 cu. in.)
Net Power			
Gear 1 (6WD on)	130 kW (175 hp)	127 kW (170 hp)	123 kW (165 hp)
Gear 2 (6WD on)	134 kW (180 hp)	130 kW (175 hp)	123 kW (165 hp)
Gear 3 (6WD on)	138 kW (185 hp)	134 kW (180 hp)	123 kW (165 hp)
Gear 4 (6WD on)	142 kW (190 hp)	142 kW (190 hp)	123 kW (165 hp)
Gear 5	142 kW (190 hp)	142 kW (190 hp)	123 kW (165 hp)
Gear 6	145 kW (195 hp)	145 kW (195 hp)	138 kW (185 hp)
Gear 7	145 kW (195 hp)	145 kW (195 hp)	138 kW (185 hp)
Gear 8	145 kW (195 hp)	145 kW (195 hp)	138 kW (185 hp)
Net Peak Torque	1098 Nm (810 lb.-ft.) at 800 rpm	1098 Nm (810 lb.-ft.) at 900 rpm	848 Nm (625 lb.-ft.) at 1,000 rpm
Net Torque Rise	68%	72%	45%
Rated Speed	2,100 rpm	2,100 rpm	2,100 rpm
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled
Lubrication	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler
Air Cleaner with Restriction Indicator	Dual element, dry	Dual element, dry	Dual element, dry
Cooling			
Cooling-on-demand, hydraulic-driven, variable-speed fan drive to optimize fuel consumption; auto-reversing fan to keep coolers clean; swing-out rear fan door for easy cleaning of all cooling components			
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)		
6-Wheel-Drive Effective Gears	1–4 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)	64 cm^3 (3.9 cu. in.)		
Wheel Motors	60 cm^3 (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 125-L/min. (33 gpm) gear pump		
Gears			
Forward	8		
Reverse	8		
Maximum Travel Speeds	*With no tire slip at 2,180 rpm, 14.0-R24 tires*		
Shift Lever Position 1	4.0 km/h (2.5 mph)		
Shift Lever Position 2	5.6 km/h (3.5 mph)		
Shift Lever Position 3	7.7 km/h (4.8 mph)		
Shift Lever Position 4	10.9 km/h (6.8 mph)		
Shift Lever Position 5	16.4 km/h (10.2 mph)		
Shift Lever Position 6	23.2 km/h (14.4 mph)		
Shift Lever Position 7	32.3 km/h (20.1 mph)		
Shift Lever Position 8	45.5 km/h (28.3 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		

Powertrain (continued)	**672G/GP**
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 option
Turning Radius (front steer and articulation)	7.21 m (23 ft. 8 in.)
Articulation (both right and left)	22 deg.
Final Drives	Inboard-mounted planetary sealed in cooled, filtered oil
Drive-Chain Pitch	51 mm (2 in.)
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	
Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump, O-ring face-seal fittings	
Maximum Pump Flow	212 L/min. (56 gpm)
Maximum System Pressure	18 961 kPa (2,750 psi)
Pump Displacement	90 cm^3 (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	490 mm (19.3 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)	2083 mm (6 ft. 10 in.)
Bank Cut Angle (right or left)	90 deg.
Productivity	
Blade Pull (maximum weight [21 228 kg (46,800 lb.)], 0.9 coefficient of traction)	19 105 kg (42,120 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	100, 130, or 150 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	23 mm (0.89 in.)
Modulus	
Minimum Vertical Section	1445 cm^3 (88 cu. in.)
Average Vertical Section at Saddle	2245 cm^3 (137 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	1524 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	**672G/GP**	
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		
Length	3.66 m (12 ft. 0 in.)	
Height (measured along arc, including cutting edge)	610 mm (24 in.)	
Thickness	22 mm (0.88 in.)	
Cutting Edge		
Dura-Max™ through-hardened steel edge		
Thickness	16 mm (0.62 in.)	
Width	152 mm (6 in.)	
Scarifiers		
	Front	*Mid-mount*
Type	V-type toolbar with manual 2-pitch positions, with hydraulic float	Radial linkage, with NeverGrease™ pin joints; V-type toolbar with manual 3-pitch positions, with hydraulic float
Width of Cut	1.20 m (4 ft. 0 in.)	1.19 m (3 ft. 11 in.)
Number of Shanks/Teeth	5 (maximum capacity 9)	11
Lift Above Ground	589 mm (23.2 in.)	335 mm (13.2 in.)
Maximum Penetration	335 mm (13.2 in.)	325 mm (12.8 in.)
Shank		
Spacing	146 mm (5.75 in.)	117 mm (4.6 in.)
Size	25 x 76 mm (1 x 3 in.)	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)	1864 mm (73.4 in.)	
Range	988 mm (38.9 in.)	
Rear Ripper/Scarifier		
Parallel linkage, with NeverGrease pin joints, hydraulic float, and integrated hitch		
	Ripper	*Scarifier*
Width of Cut	2.21 m (7 ft. 3 in.)	2.18 m (7 ft. 2 in.)
Number of Shanks/Teeth	3 (maximum capacity 5)	None standard (maximum capacity 9)
Lift Above Ground	602 mm (23.7 in.)	810 mm (31.9 in.)
Maximum Penetration	426 mm (16.8 in.)	323 mm (12.7 in.)
Shank Size	61.5 x 133 mm (2.42 x 5.25 in.)	25 x 76 mm (1 x 3 in.)
Operator Station		
Low-profile cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005)		
Tires/Wheels		
	14.00-24 on 254-mm (10 in.) Rim	*17.5-25 on 356-mm (14 in.) Rim*
Wheel Tread on Ground (front and rear)	2.08 m (82 in.)	2.16 m (85 in.)
Overall Width (top of tires, front and rear)	2.49 m (98 in.)	2.64 m (104 in.)
Ground Clearance (front axle, front and rear)	587 mm (23.1 in.)	587 mm (23.1 in.)
Serviceability		
Refill Capacities		
Fuel Tank	416.4 L (110 gal.)	
Cooling System (9.0L engine)	57.9 L (15.3 gal.)	
Engine Oil with Filter (9.0L engine)	28.0 L (7.4 gal.)	
Transmission Fluid (refill)	28.4 L (7.5 gal.)	
Differential Housing	37.9 L (10 gal.)	
Tandem Housings (each)	73.8 L (19.5 gal.)	
Circle Gearbox	5.7 L (1.5 gal.)	
Hydraulic Reservoir	60.6 L (16 gal.)	
Operating Weights		
With full fuel tank, 9.0L engine, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) moldboards with 152-mm x 16-mm (6 in. x 5/8 in.) cutting edges, 14R24 L2 tires, and 79-kg (175 lb.) operator		
Front	4781 kg (10,540 lb.)	
Rear	12 215 kg (26,930 lb.)	
Total	16 996 kg (37,470 lb.)	
Typical operating weight with front push block, rear ripper/scarifier, and other equipment		
Front	6001 kg (13,230 lb.)	
Rear	13 975 kg (30,810 lb.)	
Total	19 976 kg (44,040 lb.)	
Maximum Operating Weight	21 228 kg (46,800 lb.)	

Option Weights	672G/GP
Moldboards with Through-Hardened Dura-Max Cutting Edge	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x 7/8 in.) with 203-mm x 19-mm (8 in. x 3/4 in.) cutting edge and 16-mm (5/8 in.) hardware	45 kg (99 lb.)
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 (277 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	180 kg (396 lb.)
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/8 in.) with 152-mm x 16-mm (6 in. x 5/8 in.) cutting edge and 16-mm (5/8 in.) hardware	105 kg (231 lb.)
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/8 in.) with 203-mm x 19-mm (8 in. x 3/4 in.) cutting edge and 16-mm (5/8 in.) hardware	157.4 kg (347 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	251.3 kg (554 lb.)
Extensions, 610 mm (2 ft.) (right or left)	
For Use with 610-mm (24 in.) Moldboards	115.7 kg (255 lb.)
For Use with 686-mm (27 in.) Moldboards	120.2 kg (265 lb.)
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	23.1 kg (51 lb.)
Extended-Wear Moldboard Side-Shift Wear Inserts	0 kg (0 lb.)
Extended-Wear Circle Wear Inserts	19.5 kg (43 lb.)
Circle-Drive Slip Clutch	9.1 kg (20 lb.)
Moldboard Impact-Absorption System	43.1 kg (95 lb.)
Ripper/Scarifier, Rear Mounted with Hitch and Ripper Shanks (3)	1139 kg (2,510 lb.)
Scarifier Shanks with Teeth (9 for rear ripper/scarifier)	68 kg (150 lb.)
Ripper Shanks and Teeth (2)	63 kg (139 lb.)
Rear Counterweight with Integral Rear Hitch	727.1 kg (1,603 lb.)
Rear Hitch	54.4 kg (120 lb.)
Push Block, Front	1338 kg (2,950 lb.)
Scarifier	
Front Mount with Teeth (5)	831.4 kg (1,833 lb.)
Mid-Mount with Teeth (11)	1481 kg (3,265 lb.)
Front Lift Group (Balderson-style)	762.9 kg (1,682 lb.)
Machine Dimensions	
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
A[1] Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)
B Height to Top of Exhaust (9.0L engine)	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	2.57 m (8 ft. 5 in.)

Option Weights (continued)	672G/GP
Tires	
14.00-24, 12 PR G2	– 220.4 kg (– 486 lb.)
17.5-25, 12 PR G2/L2	– 106.1 kg (– 234 lb.)
14.00-R24, Radial, G2/L2 General Purpose	0 kg (0 lb.)
14.00-R24, Radial, G2/L2 Snow	40.8 kg (90 lb.)
17.5-R25, Radial, L2 General Purpose	51.7 kg (114 lb.)
17.5-R25, Radial, G2/L2 Snow	95.3 kg (210 lb.)
17.5-R25, Radial, G3/L3 General Purpose	141.5 kg (312 lb.)
One-Piece Rims	
229 mm x 610 mm (9 in. x 24 in.)	0 kg (0 lb.)
330 mm x 635 mm (13 in. x 25 in.)	70.8 kg (156 lb.)
Multi-Piece Rims	
254 mm x 610 mm (10 in. x 24 in.)	119.7 kg (264 lb.)
356 mm x 635 mm (14 in. x 25 in.)	205 kg (452 lb.)
Fenders	
Front	76.7 kg (169 lb.)
Rear	140.6 kg (310 lb.)
Cab	
Low with Opening Front and Side Windows	14.5 kg (32 lb.)
Tall with Fixed Front and Side Windows	58.5 kg (129 lb.)
With Opening Front and Side Windows	73 kg (161 lb.)
Premium Heated, Leather/Fabric, High-Wide Back, Air-Suspension Seat with Armrests	12.7 kg (28 lb.)
Coolant Heater	4.1 kg (9 lb.)
Fast-Fill Fuel System	13.6 kg (30 lb.)
Quick Service	10.9 kg (24 lb.)
Sound-Absorption Package (EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II)	14.1 kg (31 lb.)
Secondary Steering	26.3 kg (58 lb.)
Beacon Bracket	8.2 kg (18 lb.)
Fire Extinguisher	14.5 kg (32 lb.)
Lighting Packages	
10 Halogen Lights	4.53 kg (10 lb.)
16 Halogen Lights	7.25 kg (16 lb.)
18 Halogen Lights	8.2 kg (18 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
24- to 12-Volt, 30-Amp Converter	1.4 kg (3 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	6.8 kg (15 lb.)
Hydraulics For Front-Mounted Equipment	8.6 kg (19 lb.)
Wipers/Washers, Lower-Front Windows	4.1 kg (9 lb.)
Machine Dimensions (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[1] Overall Length with Scarifier and Ripper	10.59 m (34 ft. 9 in.)
For Overall Width see Tires/Wheels on page 22.