



John Deere 672G/GP Motor Grader

- Net Power: 190 kW (255 hp)
- Operating Weight: 19 976 kg (44 040 lb)
- Blade Pull: 22 453 kg (49,500 lb.)
- Net Torque Rise: 54%

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672G Motor Grader

190 kW (255 net hp)



JOHN DEERE

FEATURES

Increased engine horsepower, torque, and blade pull deliver generous power and lugging ability, to easily pull through tough spots or tackle steep hills.

Redesigned heavy-duty front and rear axles and increased maximum operating weight provide more versatility for attachments on your jobsite.

Cab improvements include an upgraded LCD hi-vis monitor with visibility to machine conditions and diagnostic codes. All-new gate-less shifter design builds on the success of Deere's exclusive Event-Based Shifting technology, allowing operators to go directly from forward to reverse in any gear at any time.

New Eco mode helps optimize fuel usage, decreasing operating costs by five to 10 percent.

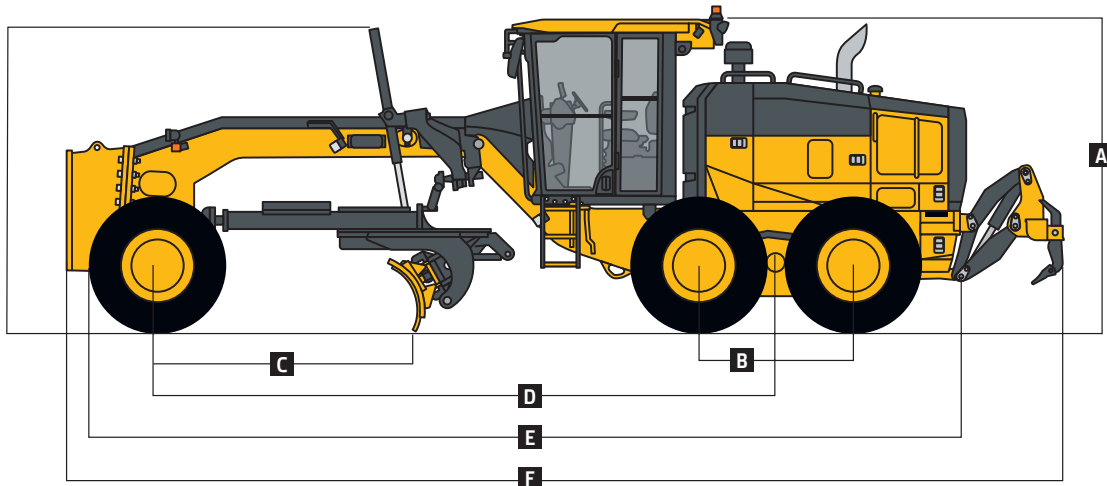
Large service doors open wide for grouped, same-side maintenance. Sealed diesel exhaust fluid (DEF) and fuel tank doors are ground-level accessible.



Engine	672G			
	<i>Optional engine: For use only in areas where EPA Final Tier 4 (FT4)/EU Stage IV is required</i>	<i>Optional engine: For use only in areas where EPA Tier 3/EU Stage IIIA is required</i>	<i>Optional engine: For use only in areas where EPA Tier 3/EU Stage IIIA or EPA Interim Tier 4 (IT4)/EU Stage IIIB is not required</i>	<i>Optional engine: For use only in areas where EPA Tier 3/EU Stage IIIA or EPA Interim Tier 4 (IT4)/EU Stage IIIB is not required</i>
Manufacturer and Model	John Deere PowerTech™ PSS 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech Plus 6.8L	John Deere PowerTech™ 6.8L
Non-Road Emission Standard	EPA FT4/EU Stage IV	EPA Tier 3/EU Stage IIIA	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II
Cylinders	6	6	6	6
Displacement	9.0L (548 cu. in.)	9.0L (548 cu. in.)	6.8L (414 cu. in.)	6.8L (414 cu. in.)
Net Engine Power – Gear 7 (6WD on)	190 kW (255 hp)	187 kW (250 hp)	157 kW (210 hp)	138 kW (185 hp)
Net Peak Torque	1273 Nm (939 lb.-ft.)	1248 Nm (920 lb.-ft.)	915 Nm (675 lb.-ft.)	831 Nm (613 lb.-ft.)
Net Torque Rise	54%	54%	33%	44%
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 – 9.0L Engines	1–7 forward and reverse			
Transmission	Direct-drive John Deere PowerShift Plus™, modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal			
Gears				
Forward	8			
Reverse	8			
Maximum Travel Speeds: with No Tire Slip at 2,180 rpm and 14.0-R24 Tires – Gear 8	45.5 km/h (28.3 mph)			
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 option			
Turning Radius (front steer and articulation)	7.21 m (284 in.) (23 ft. 8 in.)			

Hydraulics		672G
Type	Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump	
Maximum Pump Flow	212 L/m (56 gpm)	
Maximum System Pressure	18 961 kPa (2,750 psi)	
Blade Function		
Blade Range		
Lift Above Ground	490 mm (19.3 in.)	
Blade Side Shift, Right or Left	683 mm (26.9 in.)	
Shoulder Reach Outside Wheels (frame straight), Right or Left	2083 mm (82.0 in.) (6 ft. 10 in.)	
Bank Cut Angle, Right or Left	90 deg.	
Blade Pull		
At Maximum Operating Weight	22 453 kg (49,500 lb.)	
Electrical		
Voltage	24 volt	
Moldboard		
Type	Blade side-shift wear system includes quick-change replaceable wear inserts and quick-adjust jackscrew system	
Base Length	3.66 m (144 in.) (12 ft. 0 in.)	
Tires/Wheels		
	<i>14R24 on 254-mm (10 in.) Rim</i>	<i>17.5R25 on 356-mm (14 in.) Rim</i>
Wheel Tread on Ground	2.08 m (82.0 in.)	2.16 m (85.0 in.)
Overall Width	2.49 m (98.0 in.)	2.64 m (104.0 in.)
Ground Clearance (front axle)	587 mm (23.1 in.)	587 mm (23.1 in.)
Serviceability		
Refill Capacities (FT4)		
Fuel Tank	416.5 L (110 gal.)	
Hydraulic Reservoir	60.5 L (16 gal.)	
Operating Weights		
Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment	<i>EPA Final Tier 4</i>	<i>EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II</i>
Front	6001 kg (13,230 lb.)	5974 kg (13,170 lb.)
Rear	13 975 kg (30,810 lb.)	13 163 kg (29,020 lb.)
Total	19 976 kg (44,040 lb.)	19 137 kg (42,190 lb.)
Maximum Operating Weight	24 948 kg (55,000 lb.)	24 948 kg (55,000 lb.)
Machine Dimensions		
A Height to Top of Cab	3.18 m (125.0 in.) (10 ft. 5 in.)	
B Tandem Axle Spacing	1.54 m (60.8 in.) (5 ft. 1 in.)	
C Blade Base	2.57 m (101.0 in.) (8 ft. 5 in.)	
D Wheelbase	6.16 m (242.6 in.) (20 ft. 3 in.)	
E Overall Length	8.89 m (349.8 in.) (29 ft. 2 in.)	
F Overall Length with Push Block and Ripper	9.99 m (393.4 in.) (32 ft. 9 in.)	

For Overall Width see Tires/Wheels above.



670G & 672G

MOTORGRADER

ENGINE

Manufacturer and Model	John Deere PowerTech 6068H
Non-Road Emission Standards	EPA Tier 2 / EU Stage II
Displacement	414 cu. in. (6.8 L)
Net Engine Power	
Minimum	145 hp (108 kW) - 670G 165 hp (123 kW) - 672G
Maximum	185 hp (138 kW)
Net Peak Torque	625 lb.-ft. (848 Nm) at 1,000 rpm
Net Torque Rise	45%

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 and foldout coolers for easy cleaning of all cooling components

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

POWERTRAIN

Six-Wheel Drive (672G only) 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)

Conventional Mode Effective Gears 1-4 forward and reverse

Precision Mode

Effective Gears 1-3 forward only
Operating Speeds 0.25-5.0 mph (0.4-8.0 km/h)

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 33-gpm (125 L/min.) 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 2.4 mph (3.9 km/h)

Shift Lever Position 8 28.1 mph (45.2 km/h)

Differentials

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

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

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)

23 ft. 8 in. (7.21 m)

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

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	56 gpm (212 L/min.)
Maximum System Pressure	2,750 psi (18 961 kPa)
Pump Displacement	5.5 cu. in. (90 cm³)

BLADE FUNCTION

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

Blade Range

Lift Above Ground 19.3 in. (490 mm)

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

Pitch at Ground Line

Forward 42 deg.

Back 5 deg.

Shoulder Reach Outside Wheels (frame straight, right or left)

6ft. 10 in. (2083 mm)

Bank Cut Angle (right or left)

90 deg.

ELECTRICAL

Solid-state load center and sealed-switch module

Voltage

24 volt

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; 16 deluxe halogen grading lights (672G only).

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

60 in. (1524 mm)

Rotation

360 deg.

Drive

Hydraulic motor and worm gear with positive lock and slip clutch

Circle Side Shift (right and left)

31 in. (787 mm)

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

Length

14 ft. 0 in. (4.27 m)

Height (measured along arc, including cutting edge)

27 in. (686 mm)

REAR RIPPER/SCARIFIER

Parallelogram linkage, with NeverGrease pin joints, hydraulic float, integrated hitch

	Ripper	Rear Scarifier
Width of Cut	7 ft. 3 in. (2.21 m)	7 ft. 2 in. (2.18 m)
Number of Shanks/Teeth	3 (maximum capacity 5)	9 (maximum capacity 9)
Lift Above Ground	23.7 in. (602 mm)	31.9 in. (810 mm)
Maximum Penetration	16.8 in. (426 mm)	12.7 in. (323 mm)
Shank Size	2.42 x 5.25 in. (61.5 x 133 mm)	1 x 3 in. (25 x 76 mm)

OPERATOR STATION

Cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005)

TIRES/WHEELS

17.5 - 25 in. 12 PR L4 Bias on Multi Piece Rims

670G & 672G

MOTORGRADER

SERVICEABILITY

Refill Capacities

Fuel Tank	110 gal. (416.4 L)
Cooling System (9.0L engine)	12 gal. (45.4 L) / 13 gal. (49.2L) - 672G
Engine Oil with Filter (9.0L engine)	6.9 gal. (26.1 L) / 7.1 gal. (26.9L) - 672G
Transmission Fluid (refill)	6 gal. (22.7 L)
Differential Housing	9.5 gal. (36.0 L)
Tandem Housings (each)	20 gal. (75.7 L)
Circle Gearbox	1.5 gal. (5.7 L)
Hydraulic Reservoir	14 gal. (53.0 L)

OPERATING WEIGHTS

Typical Operating Weight with Front Push Block and Ripper

670G

Front	12,218 lb. (5542 kg)
Rear	28,768 lb. (13 049 kg)
Total	40,986 lb. (18 591 kg)
Maximum Operating Weight	46,800 lb. (21 228 kg)

672G

Front	13,305 lb. (6035 kg)
Rear	29,377 lb. (13 325 kg)
Total	42,682 lb. (19 360 kg)
Maximum Operating Weight	46,800 lb. (21 228 kg)

LINE DRAWINGS - 670G / 672G

Machine Dimensions

A	Height to Top of Cab	10 ft. 5 in. (3.18 m)
B	Height to Top of Exhaust (6.8L engine)	10 ft. 2 in. (3.09 m)
C	Height to Top of Blade-Lift Cylinders	10 ft. 0 in. (3.05 m)
D	Tandem Axle Spacing	5 ft. 1 in. (1.54 m)
E	Blade Base	8 ft. 5 in. (2.57 m)
F	Wheelbase	20 ft. 3 in. (6.16 m)
G	Overall Length	29 ft. 2 in. (8.89 m)
H	Overall Length with Scarifier	31 ft. 9 in. (9.69 m)
I	Overall Length with Push Block and Ripper	32 ft. 9 in. (9.99 m)

