

G-SERIES 6WD
MOTOR GRADERS



JOHN DEERE

622G/GP / 672G/GP / 772G/GP / 872G/GP



**DECIDE HOW
WORK GETS DONE**



MORE
CONTROL
OPTIONS



FACTORY EQUIPPED
WITH OPTIONAL
SMARTGRADE™



ONE



MANY OPTIONS.
CLEAR CHOICE.



WHEN YOU EXPLORE ALL THE OPTIONS,
YOU'LL CHOOSE A DEERE GRADER.

Inspired by thoughts and ideas from you, our customers, our latest G-Series Graders take their proven reputation to the next level. More choices, including our Customer Advocate Group-tested dual-joystick controls. Expanded grade-control system options, including new SmartGrade models with technology integrated directly into the machine to deliver more accurate grading results. And a smaller, more economical machine, the 622G. Existing models boast increased performance, along with a host of proven features to help you boost productivity and maximize uptime while lowering daily operating costs.



WHEN YOU ASK, WE LISTEN: THE 622G GRADER.

Our competitively priced 622G offers contractors, townships, and municipalities the grader they've been asking for. With just the right amount of power and fuel savings of up to 10 percent over our larger models, it's equipped — not stripped — to include many of the same features found on its larger siblings, including a superior cooling package and ground-level service.

DO YOUR LEVEL BEST.

BETTER SPECS, MORE OPTIONS HELP IMPROVE YOUR GRADES

With their exceptional balance, improved performance specs, and more maximum capability, G-Series Graders are always right on the money, especially for contractors, counties/municipalities, or land-leveling applications.

Unlimited grade control

Industry-first John Deere SmartGrade Motor Graders are fully integrated and calibrated from the factory, arriving at your jobsite ready to work. In-cylinder position sensing allows the machine to stay on grade no matter what blade pitch, articulation angle, or circle offset you're running.

More horsepower and torque

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

Save fuel with Eco mode

When engaged, Eco mode reduces engine rpm in gears 1–5, optimizing fuel usage and decreasing operating costs by up to 10 percent.

Power for the job

G-Series Graders deliver the right amount of power, right when you need it. Horsepower and torque are optimized for each gear to maximize performance, no matter your application.

Smarter from day one

Integration into the SmartGrade cabin and structures helps shield key grade-control components such as wire harnesses and sensors from damage and theft. And without external grade-control components to impede maneuverability, final-grade machines can be involved earlier and more effectively in site development.

Six-wheel drive

Equip these six-wheel-drive models with Precision mode for maximum productivity in all soil conditions. Six-wheel drive is adjustable on the fly to meet changing soil conditions.



**INDUSTRY-FIRST
SMARTGRADE™
CONFIGURATIONS**

TAKE CONTROL

WITHOUT LIFTING A FINGER



SIZABLE SHIFT

Included on all G and Grade Pro (GP) models with fingertip controls, gate-less shifter builds upon Deere's proven Event-Based Shifting technology to allow operators to directly move the machine from forward to reverse, in any gear, at any time.



MODEL OF CONTROL

Deere dual-joystick controls, optional on all GP models (not available on G machines), require significantly less wrist motion to articulate the motor grader than competitive joystick controls.



AT YOUR FINGERTIPS

Eight armrest-mounted, fingertip-actuated controls, including lever steer, are arranged in the industry-standard pattern on each side of the standard steering wheel. No extra grade-control levers are required. Instead, knob-integrated push buttons provide convenient, fingertip activation.



CHOICE OF CONTROLS:

- DUAL-JOYSTICK CONTROLS (GP MODELS)
- FINGERTIP ARMREST MOUNTED (GP MODELS)
- CONVENTIONAL LEVER OPERATED (G MODELS)
- STEERING WHEEL (STANDARD ON ALL MODELS)

Our G-Series Graders give you more choice of how work gets done. On our GP models opt for dual-joystick controls or choose state-of-the-art fingertip armrest controls. Or have the best of both worlds — a field kit allows you to easily swap between the two. Our G models offer conventional lever-operated controls. And based on customer feedback, all models still have a steering wheel. The choice is yours.

Joystick option

Our dual-joystick option provides intuitive control with minimal hand motion during direction changes and gear shifts. Dual-joystick controls help reduce operator fatigue by eliminating the twisting wrist motion or uncomfortable combinations common to other joystick systems.

Precise control with less fatigue

Instead of twisting the controller, actuate articulation and circle-rotate functions using proportional roller switches.

Suite deal

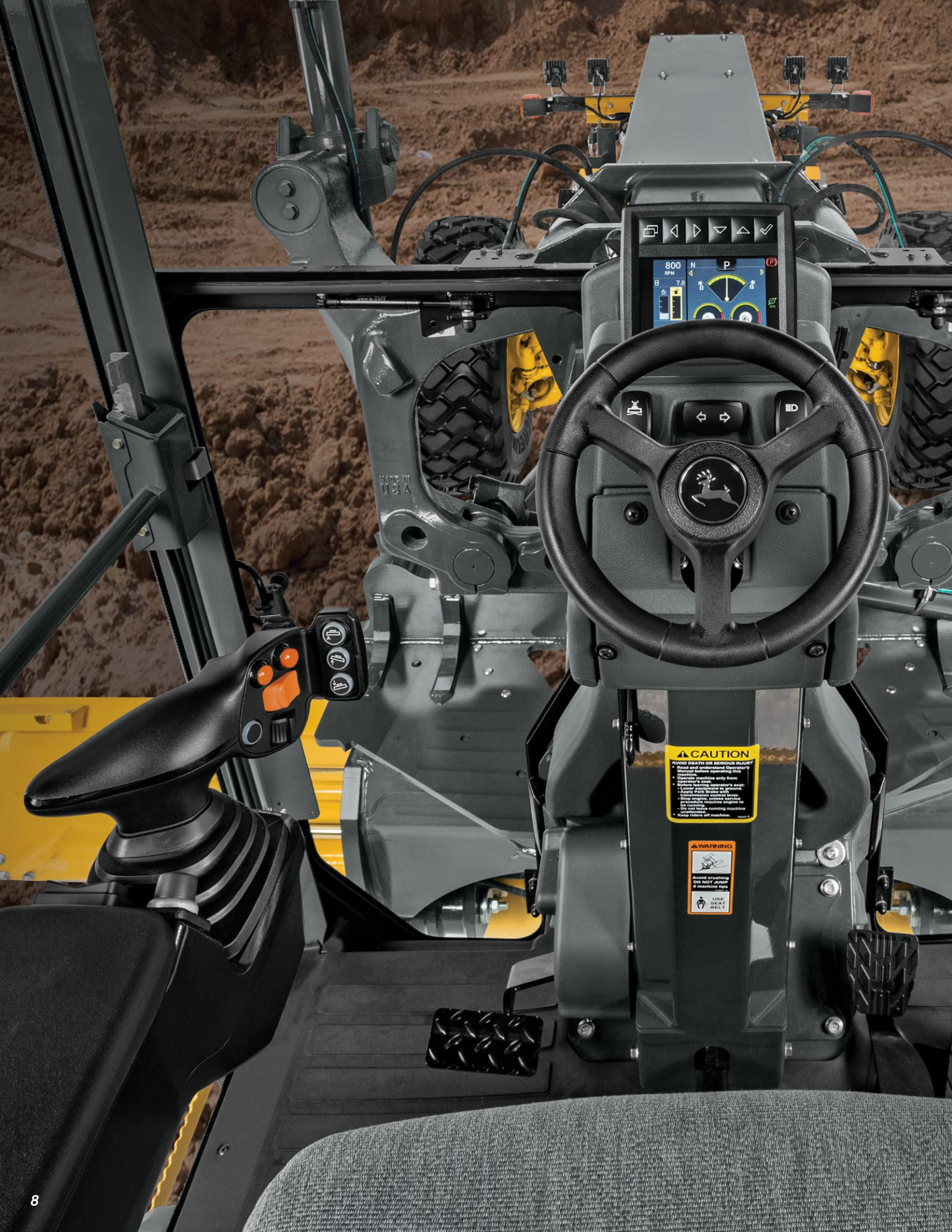
SmartGrade models include a standard Automation Suite (optional on GP models) that streamlines the number of controls needed to perform common tasks. **Auto-Articulation** combines front and rear steering. Use **Blade Flip** to automatically mirror the circle to a preset angle. **Machine Presets** allow operators to activate multiple machine functions, features, and positions with the press of a single button.

Return-to-straight

At the touch of a button, return-to-straight automatically straightens an articulated frame, speeding work cycles.

Automated cross-slope

Both dual-joystick controls and fingertip armrest controls come equipped with cross-slope and are ready to run the grade-control system of your choice. Automated cross-slope simplifies holding a consistent slope by reducing operation to a single lever. It's a GP feature that helps veteran operators be their best and new operators get up to speed more quickly.





EXPANSIVE VISIBILITY

LOOK FORWARD TO **MORE PRODUCTIVITY.**

It's easy to see why G-Series Graders have become a favorite on a wide range of jobsites, with their expansive views, an LCD high-visibility monitor, and smooth gate-less shifting.

Exceptional view

Visibility is virtually unobstructed, with an all-around clear view to the heel and toe, and behind the moldboard. Even the area beneath the front axle is clearly within sight, for greater awareness of oncoming obstacles.

Store your stuff

Generous storage space includes numerous overhead compartments, plus a place for a beverage, cooler, cell phone, and other carry-ons.

Lighting the way

Courtesy lighting stays on after machine shutdown and then automatically turns itself off, making it safer to exit the cab after dark, while conserving battery power.

Easy-access park brake

Sealed-switch module provides push-button control of vital machine functions, including the parking brake, for more convenient access and easier operation.

Streamlined access to vital info

LCD hi-vis monitor provides intuitive, push-button access to vital machine data displayed via simple, easy-to-navigate icons and menus.



NO TIME TO LO

***UPTIME ISN'T EVERYTHING,
IT'S THE ONLY THING.***

Downtime means lost productivity and profits. Which is why G-Series Graders are loaded with durability-enhancing advantages that help deliver years of trouble-free service. When you know how they're built, you'll run these John Deere.

**STANDARD
REVERSING FAN**
(OPTIONAL ON 622G/GP)



OSE

Easy-to-clean cooling package

Cooling package eliminates stacked coolers. Combined with the hinged swing-out fan, core access is quick and cleaning is easy.

Fuel-efficient, cool-on-demand fan with reversing option

Variable-speed hydraulically driven fan runs only as fast or as often as necessary to keep things cool. Helps conserve power and fuel, while reducing noise. Standard reversible fan (optional on 622G/GP) makes for quick core cleanout in high-debris applications.

Auto shutdown reduces fuel use and wear

Auto shutdown turns off the engine after an operator-determined idle period, saving fuel and reducing wear on engine, transmission, and hydraulic components.

Multipurpose for your multipurposes

Redesigned heavy-duty front and rear axles combined with increased maximum operating weights enable more versatility and better blade pull for utilizing attachments.

Keep downtime down with

JOHN DEERE ULTIMATE UPTIME

John Deere Ultimate Uptime, featuring John Deere WorkSight™, is a customizable support solution available exclusively from your Deere dealer. This flexible offering maximizes equipment availability with standard John Deere WorkSight capabilities that can help prevent future downtime and speed repairs when needed. In addition to the base John Deere WorkSight features, our dealers work with you to build an uptime package that meets the specific needs of your machine, fleet, project, and business, including customized maintenance and repair agreements, onsite parts availability, extended warranties, fluid sampling, response-time guarantees, and more.

Get valuable insight with

JOHN DEERE WORKSIGHT

John Deere WorkSight is an exclusive suite of telematics solutions that increases uptime while lowering operating costs. At its heart, JDLink™ machine monitoring provides real-time utilization data and alerts to help you maximize productivity and efficiency while minimizing downtime. Remote diagnostics enable your dealer to read codes and record performance data without a trip to the jobsite.



TIME TO TAKE SIDES.

Fast, simple ground-level access

All daily service points, including fueling and diesel exhaust fluid (DEF), are grouped on the left side for quick and convenient ground-level access. On the right side, maintenance personnel will appreciate the easy-access hydraulic, transmission, and differential filter bank.





622G / GP

SPECIFICATIONS

Engine	622G/GP		
Manufacturer and Model	John Deere PowerTech™ PSS 6.8L	John Deere PowerTech™ Plus 6.8L	John Deere PowerTech™ 6.8L
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II
Cylinders	6	6	6
Displacement	6.8L (414 cu. in.)	6.8L (414 cu. in.)	6.8L (414 cu. in.)
Net Engine Power			
Gear 1	127 kW (170 hp)	123 kW (165 hp)	123 kW (165 hp)
Gear 2	138 kW (185 hp)	131 kW (175 hp)	134 kW (180 hp)
Gear 3	149 kW (200 hp)	142 kW (190 hp)	138 kW (185 hp)
Gear 4	157 kW (210 hp)	149 kW (200 hp)	138 kW (185 hp)
Gear 5	157 kW (210 hp)*	149 kW (200 hp)*	138 kW (185 hp)*
Gear 6	160 kW (215 hp)*	153 kW (205 hp)*	138 kW (185 hp)*
Gear 7	164 kW (220 hp)*	157 kW (210 hp)*	138 kW (185 hp)*
Gear 8	168 kW (225 hp)*	157 kW (210 hp)*	138 kW (185 hp)*
Net Peak Torque	1035 Nm (763 lb.-ft.)	915 Nm (675 lb.-ft.)	831 Nm (613 lb.-ft.)
Net Torque Rise	43%	36%	44%
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
*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	1-4 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)	53 cm³ (3.2 cu. in.)		
Wheel Motors	57 cm³ (3.5 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 117-L/min. (31 gpm) gear pump		
Gears			
Forward	8		
Reverse	8		
Maximum Travel Speeds	<i>No tire slip at 2,180 rpm, 14.0-R24 tires</i>		
Gear 1	4.0 km/h (2.5 mph)		
Gear 2	5.6 km/h (3.5 mph)		
Gear 3	7.7 km/h (4.8 mph)		
Gear 4	10.9 km/h (6.8 mph)		
Gear 5	16.4 km/h (10.2 mph)		
Gear 6	23.2 km/h (14.4 mph)		
Gear 7	32.3 km/h (20.1 mph)		
Gear 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		
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)		

622G / GP SPECIFICATIONS

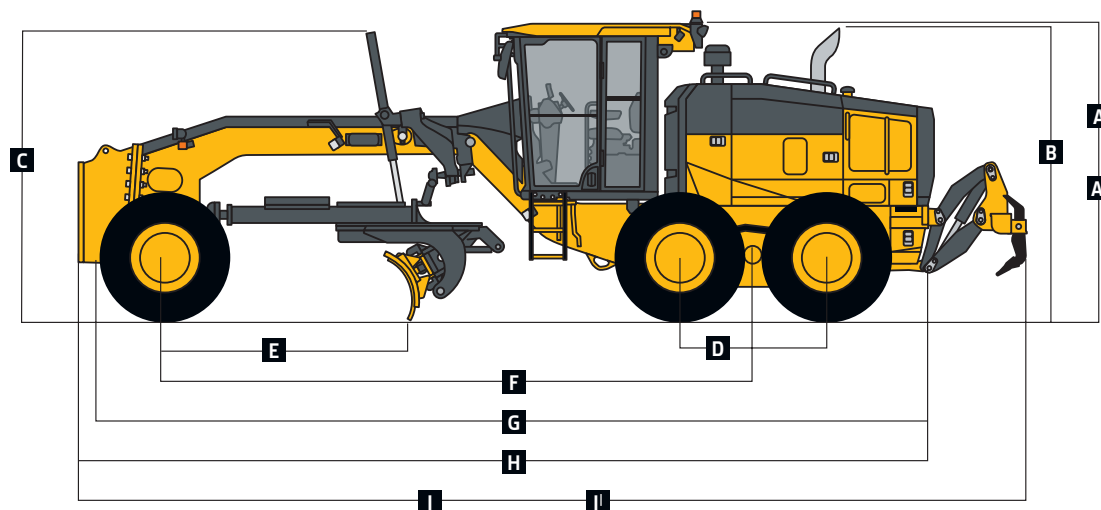


Hydraulics		622G/GP	
Type	Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump		
Maximum Pump Flow	212 L/min. (56 gpm)		
Maximum System Pressure	18 961 kPa (2,750 psi)		
Pump Displacement	90 cm ³ (5.5 cu. in.)		
Blade Function			
All-hydraulic, industry-standard 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 (82.0 in.) (6 ft. 10 in.)		
Bank Cut Angle (right or left)	90 deg.		
Blade Pull			
At Maximum Operating Weight	20 412 kg (45,000 lb.)		
Electrical			
Solid-state load center and sealed-switch module	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II	
Voltage	24 volt	24 volt	
Number of Batteries	2	2	
Battery Capacity	1,400 CCA	950 CCA	
Reserve Capacity	440 min.	190 min.	
Amp-Hour Rating	224 amp-hour	110 amp-hour	
Alternator Rating			
Base	130 amp	100 amp	
Optional	200 amp	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	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			
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	3.66 m (144 in.) (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		622G/GP	
		<i>Front</i>	<i>Mid-mount</i>
Type		V-type toolbar with manual 2-pitch positions and hydraulic float	Radial linkage, with NeverGrease™ pin joints; V-type manual 3-pitch positions and hydraulic float
Width of Cut		1.20 m (48 in.) (4 ft. 0 in.)	1.19 m (46.7 in.) (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 Depth		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			
		<i>Ripper</i>	<i>Scarifier</i>
Width of Cut		2.21 m (87.2 in.) (7 ft. 3 in.)	2.18 m (86 in.) (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 Depth		426 mm (16.8 in.)	323 mm (12.7 in.)
Force at Typical FT4 Weight			
Penetration		9488 kg (20,918 lb.)	—
Pry-Out		12 358 kg (27,246 lb.)	—
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			
		<i>13x24 on 254-mm (10 in.) Rim</i>	<i>14R24 on 254-mm (10 in.) Rim</i>
Wheel Tread on Ground		2.08 m (82 in.)	2.08 m (82.0 in.)
Overall Width		2.49 m (98 in.)	2.49 m (98.0 in.)
Ground Clearance (front axle)		557 mm (21.9 in.)	587 mm (23.1 in.)
			<i>17.5R25 on 356-mm (14 in.) Rim</i>
			2.16 m (85.0 in.)
			2.64 m (104.0 in.)
			587 mm (23.1 in.)
Serviceability			
Refill Capacities		<i>EPA Final Tier 4/EU Stage IV</i>	<i>EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II</i>
Fuel Tank		416.5 L (110 gal.)	303 L (80 gal.)
Diesel Exhaust Fluid (DEF) Tank		22.5 L (6 gal.)	—
Cooling System		51.0 L (13.5 gal.)	44.0 L (11.6 gal.)
Engine Oil with Filter		31.5 L (8.3 gal.)	26.0 L (6.9 gal.)
Transmission Fluid		28.4 L (7.5 gal.)	28.4 L (7.5 gal.)
Differential Housing		38.0 L (10 gal.)	38.0 L (10 gal.)
Tandem Housings (each)		74.0 L (19.5 gal.)	74.0 L (19.5 gal.)
Circle Gearbox		5.7 L (1.5 gal.)	5.7 L (1.5 gal.)
Hydraulic Reservoir		60.5 L (16 gal.)	53.0 L (14 gal.)
Operating Weights			
With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, and 79-kg (175 lb.) Operator			
		<i>EPA Final Tier 4/EU Stage IV*</i>	<i>EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II'</i>
Front		4781 kg (10,540 lb.)	4844 kg (10,680 lb.)
Rear		11 984 kg (26,420 lb.)	11 167 kg (24,620 lb.)
Total		16 765 kg (36,960 lb.)	16 012 kg (35,300 lb.)
Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment			
Front		5425 kg (11,960 lb.)	5579 kg (12,300 lb.)
Rear		13 653 kg (30,100 lb.)	12 701 kg (28,000 lb.)
Total		19 078 kg (42,060 lb.)	18 280 kg (40,300 lb.)
Maximum Operating Weight		22 680 kg (50,000 lb.)	22 680 kg (50,000 lb.)
*With 14R24 L2 tires. / 'With 13-24 Bias L2 tires.			

Option Weights	622G/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 152-mm x 16-mm (6 in. x 5/8 in.) cutting edge and 16-mm (5/8 in.) hardware	0 kg (0 lb.)
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.)
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.)
Extensions, 610 mm (2 ft.) (right or left)	
For Use with 610-mm (24 in.) Moldboards	116 kg (255 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 kg (51 lb.)
Circle-Drive Slip Clutch	9 kg (20 lb.)
Moldboard Impact-Absorption System	43 kg (95 lb.)
Ripper, 3 Shank, No Scarifier	1052 kg (2,319 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.)
Rear Counterweight with Integral Rear Hitch	727 kg (1,603 lb.)
Rear Hitch	54.4 kg (120 lb.)
Push Block, Front	907 kg (2,000 lb.)
Scarifier	
Front Mount with Teeth (5)	831 kg (1,833 lb.)
Mid-Mount with Teeth (11)	1481 kg (3,265 lb.)
Front Lift Group (Balderson-style)	763 kg (1,682 lb.)
Machine Dimensions	
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
A' Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)
B Height to Top of Exhaust (9.0L engine)	3.10 m (10 ft. 2 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)	622G/GP
Tires	
13.00-24, 12 PR G2	-306 kg (-675 lb.)
14.00-24, 12 PR G2	-220.4 kg (-486 lb.)
17.5-25, 12 PR G2/L2	-106 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.)
Multi-Piece Rims	
254 mm x 610 mm (10 in. x 24 in.)	0 kg (0 lb.)
356 mm x 635 mm (14 in. x 25 in.)	85.3 kg (188 lb.)
Fenders	
Front	77 kg (169 lb.)
Rear	141 kg (310 lb.)
Low Cab with Opening Front and Side Windows	14.5 kg (32 lb.)
Premium Air-Suspension, Heated Seat with Adjustable Arm- and Headrests	13 kg (28 lb.)
Coolant Heater	4 kg (9 lb.)
Quick Service	11 kg (24 lb.)
Sound-Absorption Package (machines equipped with Tier 3/Stage IIIA and Tier 2/Stage II engines only)	14 kg (31 lb.)
Secondary Steering	26 kg (58 lb.)
Beacon Bracket	8 kg (18 lb.)
Fire Extinguisher	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	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	7 kg (15 lb.)
Hydraulics for Front-Mounted Equipment	9 kg (19 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' Overall Length with Scarifier and Ripper	10.59 m (34 ft. 9 in.)
For Overall Width see Tires/Wheels on page 16.	





672G / GP SPECIFICATIONS

Engine	672G/GP				
Manufacturer and Model	John Deere PowerTech™ PSS 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech™ 9.0L	John Deere PowerTech Plus 6.8L	John Deere PowerTech 6.8L
Non-Road Emission Standard	EPA Final Tier 4/ EU Stage IV	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II
Cylinders	6	6	6	6	6
Displacement	9.0L (548 cu. in.)	9.0L (548 cu. in.)	9.0L (548 cu. in.)	6.8L (414 cu. in.)	6.8L (414 cu. in.)
Net Engine Power					
Gear 1	142 kW (190 hp)	138 kW (185 hp)	138 kW (185 hp)	131 kW (175 hp)	131 kW (175 hp)
Gear 2	153 kW (205 hp)	149 kW (200 hp)	149 kW (200 hp)	134 kW (180 hp)	134 kW (180 hp)
Gear 3	164 kW (220 hp)	160 kW (215 hp)	160 kW (215 hp)	146 kW (195 hp)	138 kW (185 hp)
Gear 4	172 kW (230 hp)	168 kW (225 hp)	168 kW (225 hp)	153 kW (205 hp)	138 kW (185 hp)
Gear 5	175 kW (235 hp)	172 kW (230 hp)	172 kW (230 hp)	149 kW (200 hp)*	138 kW (185 hp)*
Gear 6	183 kW (245 hp)	179 kW (240 hp)	179 kW (240 hp)	153 kW (205 hp)*	138 kW (185 hp)*
Gear 7	190 kW (255 hp)	187 kW (250 hp)	187 kW (250 hp)	157 kW (210 hp)*	138 kW (185 hp)*
Gear 8	183 kW (245 hp)*	179 kW (240 hp)*	179 kW (240 hp)*	160 kW (215 hp)*	138 kW (185 hp)*
Net Peak Torque	1273 Nm (939 lb.-ft.)	1248 Nm (920 lb.-ft.)	1248 Nm (920 lb.-ft.)	915 Nm (675 lb.-ft.)	831 Nm (613 lb.-ft.)
Net Torque Rise	54%	54%	54%	33%	44%
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	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	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	Dual element, dry	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 (9.0L engines) / 1-4 forward and reverse (6.8L engines)				
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)	53 cm³ (3.2 cu. in.)				
Wheel Motors	57 cm³ (3.5 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 117-L/min. (31 gpm) gear pump				
Gears					
Forward	8				
Reverse	8				
Maximum Travel Speeds	No tire slip at 2,180 rpm, 14.0-R24 tires				
Gear 1	4.0 km/h (2.5 mph)				
Gear 2	5.6 km/h (3.5 mph)				
Gear 3	7.7 km/h (4.8 mph)				
Gear 4	10.9 km/h (6.8 mph)				
Gear 5	16.4 km/h (10.2 mph)				
Gear 6	23.2 km/h (14.4 mph)				
Gear 7	32.3 km/h (20.1 mph)				
Gear 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				
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)				

672G / GP SPECIFICATIONS

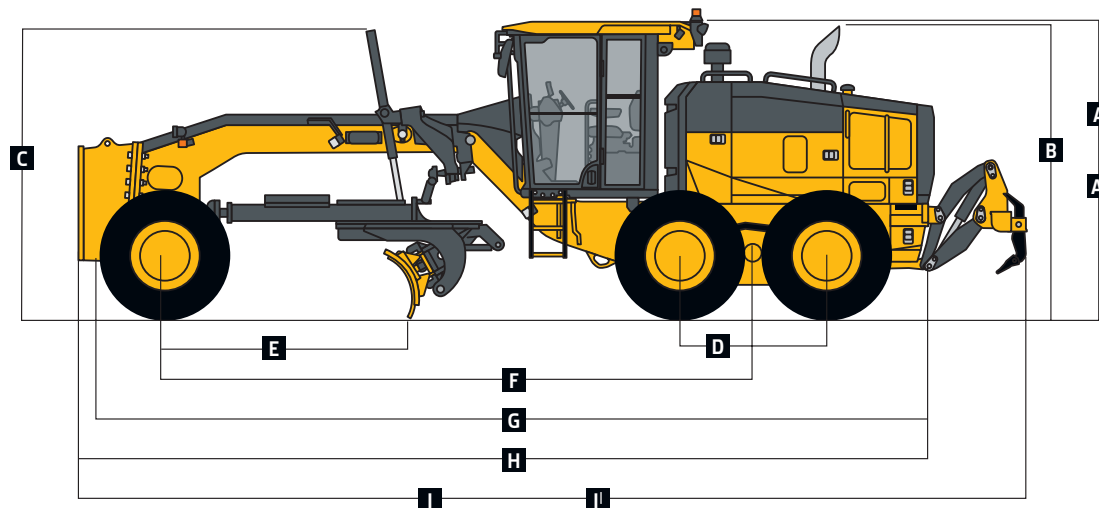


Hydraulics		672G/GP	
Type	Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump		
Maximum Pump Flow	212 L/min. (56 gpm)		
Maximum System Pressure	18 961 kPa (2,750 psi)		
Pump Displacement	90 cm³ (5.5 cu. in.)		
Blade Function			
All-hydraulic, industry-standard lever placement of blade-function controls; includes float position; 7 discrete saddle positions			
Blade Range			
Lift Above Ground	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 (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			
Solid-state load center and sealed-switch module	EPA Final Tier 4/EU Stage IV		EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Voltage	24 volt		24 volt
Number of Batteries	2		2
Battery Capacity	1,400 CCA		1,400 CCA
Reserve Capacity	440 min.		440 min.
Amp-Hour Rating	224 amp-hour		224 amp-hour
Alternator Rating			
Base	130 amp		100 amp
Optional	200 amp		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	23 mm (0.89 in.)		
Modulus			
Minimum Vertical Section	1445 cm³ (88 cu. in.)		
Average Vertical Section at Saddle	2245 cm³ (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			
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	3.66 m (144 in.) (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		672G/GP
		<i>Front</i>
Type		V-type toolbar with manual 2-pitch positions and hydraulic float
Width of Cut		1.20 m (48 in.) (4 ft. 0 in.)
Number of Shanks/Teeth		5 (maximum capacity 9)
Lift Above Ground		589 mm (23.2 in.)
Maximum Depth		335 mm (13.2 in.)
Shank		
Spacing		146 mm (5.75 in.)
Size		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		
		<i>Ripper</i>
Width of Cut		2.21 m (87.2 in.) (7 ft. 3 in.)
Number of Shanks/Teeth		3 (maximum capacity 5)
Lift Above Ground		602 mm (23.7 in.)
Maximum Depth		426 mm (16.8 in.)
Force at Typical FT4 Weight		
Penetration		9712 kg (21,411 lb.)
Pry-Out		13 671 kg (30,139 lb.)
Shank Size		61.5 x 133 mm (2.42 x 5.25 in.)
		<i>Scarifier</i>
Width of Cut		2.18 m (86 in.) (7 ft. 2 in.)
Number of Shanks/Teeth		None standard (maximum capacity 9)
Lift Above Ground		810 mm (31.9 in.)
Maximum Depth		323 mm (12.7 in.)
Force at Typical FT4 Weight		
Penetration		—
Pry-Out		—
Shank Size		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		
		<i>14R24 on 254-mm (10 in.) Rim</i>
Wheel Tread on Ground		2.08 m (82.0 in.)
Overall Width		2.49 m (98.0 in.)
Ground Clearance (front axle)		587 mm (23.1 in.)
		<i>17.5R25 on 356-mm (14 in.) Rim</i>
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		
		<i>EPA Final Tier 4/EU Stage IV</i>
Refill Capacities		<i>9.0L engine</i>
Fuel Tank		416.5 L (110 gal.)
Diesel Exhaust Fluid (DEF) Tank		22.5 L (6 gal.)
Cooling System		55.0 L (14.5 gal.)
Engine Oil with Filter		28.4 L (7.5 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		60.5 L (16 gal.)
		<i>EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II</i>
		<i>9.0L engine</i>
Fuel Tank		416.5 L (110 gal.)
Diesel Exhaust Fluid (DEF) Tank		—
Cooling System		48.5 L (12.8 gal.)
Engine Oil with Filter		28.0 L (7.4 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.)
		<i>6.8L engine</i>
Fuel Tank		416.5 L (110 gal.)
Diesel Exhaust Fluid (DEF) Tank		—
Cooling System		44 L (11.6 gal.)
Engine Oil with Filter		26.0 L (6.9 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, 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		<i>EPA Final Tier 4/EU Stage IV</i>
Front		4821 kg (10,629 lb.)
Rear		12 295 kg (27,106 lb.)
Total		17 116 kg (37,734 lb.)
		<i>EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II</i>
Front		4826 kg (10,640 lb.)
Rear		11 814 kg (26,045 lb.)
Total		16 640 kg (36,685 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		24 948 kg (55,000 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 152-mm x 16-mm (6 in. x 5/8 in.) cutting edge and 16-mm (5/8 in.) hardware	0 kg (0 lb.)
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 kg (554 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	261 kg (575 lb.)
Extensions, 610 mm (2 ft.) (right or left)	
For Use with 610-mm (24 in.) Moldboards	116 kg (255 lb.)
For Use with 686-mm (27 in.) Moldboards	120 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 kg (51 lb.)
Heavy-Duty Dual-Input Circle-Drive Gearbox	14 kg (31 lb.)
Circle-Drive Slip Clutch	9 kg (20 lb.)
Moldboard Impact-Absorption System	43 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.)
Machine Dimensions	
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
A' Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)
B Height to Top of Exhaust	3.10 m (10 ft. 2 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
Rear Counterweight with Integral Rear Hitch	727 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 kg (1,833 lb.)
Mid-Mount with Teeth (11)	1481 kg (3,265 lb.)
Front Lift Group (Balderson-style)	763 kg (1,682 lb.)
Tires	
14.00-24, 12 PR G2	– 220.4 kg (– 486 lb.)
17.5-25, 12 PR G2/L2	– 106 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.)
Multi-Piece Rims	
254 mm x 610 mm (10 in. x 24 in.)	0 kg (0 lb.)
356 mm x 635 mm (14 in. x 25 in.)	85.3 kg (188 lb.)
Fenders	
Front	77 kg (169 lb.)
Rear	141 kg (310 lb.)
Low Cab with Opening Front and Side Windows	14.5 kg (32 lb.)
Premium Air-Suspension, Heated Seat with Adjustable Arm- and Headrests	13 kg (28 lb.)
Coolant Heater	4 kg (9 lb.)
Quick Service	11 kg (24 lb.)
Sound-Absorption Package (machines equipped with Tier 3/Stage IIIA and Tier 2/Stage II engines only)	14 kg (31 lb.)
Secondary Steering	26 kg (58 lb.)
Beacon Bracket	8 kg (18 lb.)
Fire Extinguisher	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	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	7 kg (15 lb.)
Hydraulics for Front-Mounted Equipment	9 kg (19 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' Overall Length with Scarifier and Ripper	10.59 m (34 ft. 9 in.)
For Overall Width see Tires/Wheels on page 20.	





772G / GP SPECIFICATIONS

Engine	772G/GP		
Manufacturer and Model	John Deere PowerTech™ PSS 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech™ 9.0L
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II
Cylinders	6	6	6
Displacement	9.0L (548 cu. in.)	9.0L (548 cu. in.)	9.0L (548 cu. in.)
Net Engine Power			
Gear 1	157 kW (210 hp)	153 kW (205 hp)	153 kW (205 hp)
Gear 2	168 kW (225 hp)	164 kW (220 hp)	164 kW (220 hp)
Gear 3	179 kW (240 hp)	175 kW (235 hp)	175 kW (235 hp)
Gear 4	187 kW (250 hp)	183 kW (245 hp)	183 kW (245 hp)
Gear 5	190 kW (255 hp)	187 kW (250 hp)	187 kW (250 hp)
Gear 6	198 kW (265 hp)	194 kW (260 hp)	194 kW (260 hp)
Gear 7	205 kW (275 hp)	201 kW (270 hp)	201 kW (270 hp)
Gear 8	198 kW (265 hp)*	194 kW (260 hp)*	194 kW (260 hp)*
Net Peak Torque	1375 Nm (1,014 lb.-ft.)	1300 Nm (959 lb.-ft.)	1300 Nm (959 lb.-ft.)
Net Torque Rise	55%	57%	57%
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
*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 117-L/min. (31 gpm) gear pump		
Gears			
Forward	8		
Reverse	8		
Maximum Travel Speeds	No tire slip at 2,180 rpm, 14.0-R24 tires		
Gear 1	4.0 km/h (2.5 mph)		
Gear 2	5.6 km/h (3.5 mph)		
Gear 3	7.7 km/h (4.8 mph)		
Gear 4	10.9 km/h (6.8 mph)		
Gear 5	16.4 km/h (10.2 mph)		
Gear 6	23.2 km/h (14.4 mph)		
Gear 7	32.3 km/h (20.1 mph)		
Gear 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		
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)		

772G / GP SPECIFICATIONS

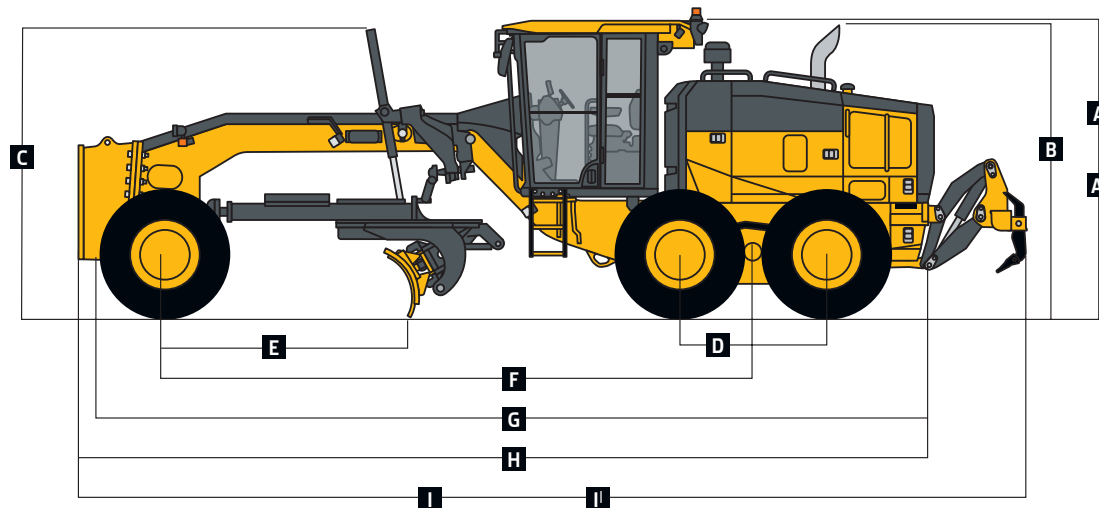


Hydraulics		772G/GP	
Type	Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump		
Maximum Pump Flow	212 L/min. (56 gpm)		
Maximum System Pressure	18 961 kPa (2,750 psi)		
Pump Displacement	90 cm³ (5.5 cu. in.)		
Blade Function			
All-hydraulic, industry-standard lever placement of blade-function controls; includes float position; 7 discrete saddle positions			
Blade Range			
Lift Above Ground	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 (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			
Solid-state load center and sealed-switch module	EPA Final Tier 4/EU Stage IV		EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Voltage	24 volt		24 volt
Number of Batteries	2		2
Battery Capacity	1,400 CCA		1,400 CCA
Reserve Capacity	440 min.		440 min.
Amp-Hour Rating	224 amp-hour		224 amp-hour
Alternator Rating			
Base	130 amp		100 amp
Optional	200 amp		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	23 mm (0.89 in.)		
Modulus			
Minimum Vertical Section	1770 cm³ (108 cu. in.)		
Average Vertical Section at Saddle	2245 cm³ (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			
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	3.66 m (144 in.) (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		772G/GP
		<i>Front</i>
Type		V-type toolbar with manual 2-pitch positions and hydraulic float
Width of Cut		1.20 m (48 in.) (4 ft. 0 in.)
Number of Shanks/Teeth		5 (maximum capacity 9)
Lift Above Ground		589 mm (23.2 in.)
Maximum Depth		335 mm (13.2 in.)
Shank		
Spacing		146 mm (5.75 in.)
Size		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		
		<i>Ripper</i>
Width of Cut		2.21 m (87.2 in.) (7 ft. 3 in.)
Number of Shanks/Teeth		3 (maximum capacity 5)
Lift Above Ground		602 mm (23.7 in.)
Maximum Depth		426 mm (16.8 in.)
Force at Typical FT4 Weight		
Penetration		9781 kg (21,564 lb.)
Pry-Out		13 991 kg (30,845 lb.)
Shank Size		61.5 x 133 mm (2.42 x 5.25 in.)
		<i>Scarifier</i>
Width of Cut		2.18 m (86 in.) (7 ft. 2 in.)
Number of Shanks/Teeth		None standard (maximum capacity 9)
Lift Above Ground		810 mm (31.9 in.)
Maximum Depth		323 mm (12.7 in.)
Force at Typical FT4 Weight		
Penetration		—
Pry-Out		—
Shank Size		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		
	14R24 on 254-mm (10 in.) Rim	17.5R25 on 356-mm (14 in.) Rim
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.)
		550/65R25 on 432-mm (17 in.) Rim
Wheel Tread on Ground		2.21 m (87.0 in.)
Overall Width		2.77 m (109.0 in.)
Ground Clearance (front axle)		612 mm (24.1 in.)
Serviceability		
Refill Capacities	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Fuel Tank	416.5 L (110 gal.)	416.5 L (110 gal.)
Diesel Exhaust Fluid (DEF) Tank	22.5 L (6 gal.)	—
Cooling System	55.0 L (14.5 gal.)	48.5 L (12.8 gal.)
Engine Oil with Filter	28.4 L (7.5 gal.)	27.0 L (7.1 gal.)
Transmission Fluid	28.4 L (7.5 gal.)	28.4 L (7.5 gal.)
Differential Housing	38.0 L (10 gal.)	38.0 L (10 gal.)
Tandem Housings (each)	74.0 L (19.5 gal.)	74.0 L (19.5 gal.)
Circle Gearbox	5.7 L (1.5 gal.)	5.7 L (1.5 gal.)
Hydraulic Reservoir	60.5 L (16 gal.)	53.0 L (14 gal.)
Operating Weights		
With Full Fuel Tank, 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		
Operator	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Front	4921 kg (10,849 lb.)	4930 kg (10,869 lb.)
Rear	12 581 kg (27,736 lb.)	11 937 kg (26,317 lb.)
Total	17 502 kg (38,585 lb.)	16 867 kg (37,185 lb.)
Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment		
Front	6142 kg (13,540 lb.)	6177 kg (13,618 lb.)
Rear	14 075 kg (31,030 lb.)	13 427 kg (29,602 lb.)
Total	20 217 kg (44,570 lb.)	19 604 kg (43,220 lb.)
Maximum Operating Weight	24 948 kg (55,000 lb.)	24 948 kg (55,000 lb.)

Option Weights	772G/GP
Moldboards with Through-Hardened Dura-Max Cutting Edge	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x ⅞ in.) with 152-mm x 16-mm (6 in. x ⅝ in.) cutting edge and 16-mm (⅝ in.) hardware	0 kg (0 lb.)
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x ⅞ in.) with 203-mm x 19-mm (8 in. x ¾ in.) cutting edge and 16-mm (⅝ 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 ¾ in.) cutting edge and 16-mm (⅝ 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 ¾ in.) cutting edge and 16-mm (⅝ in.) hardware	180 kg (396 lb.)
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ⅞ in.) with 152-mm x 16-mm (6 in. x ⅝ in.) cutting edge and 16-mm (⅝ in.) hardware	105 kg (231 lb.)
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ⅞ in.) with 203-mm x 19-mm (8 in. x ¾ in.) cutting edge and 16-mm (⅝ 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 ¾ in.) cutting edge and 16-mm (⅝ in.) hardware	251 kg (554 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 ¾ in.) cutting edge and 19-mm (¾ in.) hardware	261 kg (575 lb.)
Extensions, 610 mm (2 ft.) (right or left)	
For Use with 610-mm (24 in.) Moldboards	116 kg (255 lb.)
For Use with 686-mm (27 in.) Moldboards	120 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 kg (51 lb.)
Heavy-Duty Dual-Input Circle-Drive Gearbox	14 kg (31 lb.)
Circle-Drive Slip Clutch	9 kg (20 lb.)
Moldboard Impact-Absorption System	43 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 kg (1,603 lb.)
Machine Dimensions	
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
A' Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)
B Height to Top of Exhaust	3.10 m (10 ft. 2 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)	772G/GP
Rear Hitch	54.4 kg (120 lb.)
Push Block, Front	1338 kg (2,950 lb.)
Scarifier	
Front Mount with Teeth (5)	831 kg (1,833 lb.)
Mid-Mount with Teeth (11)	1481 kg (3,265 lb.)
Front Lift Group (Balderson-style)	763 kg (1,682 lb.)
Tires	
14.00-24, 12 PR G2	– 220.4 kg (– 486 lb.)
17.5-25, 12 PR G2/L2	– 106 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.)
550/65R25 XLD70 G3/L3 Radial, General Purpose	495.3 kg (1,092 lb.)
Multi-Piece Rims	
254 mm x 610 mm (10 in. x 24 in.)	0 kg (0 lb.)
356 mm x 635 mm (14 in. x 25 in.)	85.3 kg (188 lb.)
432 mm x 635 mm (17 in. x 25 in.)	131.6 kg (290 lb.)
Fenders	
Front	77 kg (169 lb.)
Rear	141 kg (310 lb.)
Low Cab with Opening Front and Side Windows	14.5 kg (32 lb.)
Premium Air-Suspension, Heated Seat with Adjustable Arm- and Headrests	13 kg (28 lb.)
Coolant Heater	4 kg (9 lb.)
Quick Service	11 kg (24 lb.)
Sound-Absorption Package (machines equipped with Tier 3/Stage IIIA and Tier 2/Stage II engines only)	14 kg (31 lb.)
Secondary Steering	26 kg (58 lb.)
Beacon Bracket	8 kg (18 lb.)
Fire Extinguisher	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	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	7 kg (15 lb.)
Hydraulics for Front-Mounted Equipment	9 kg (19 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' Overall Length with Scarifier and Ripper	10.59 m (34 ft. 9 in.)
<i>For Overall Width see Tires/Wheels on page 24.</i>	





872G / GP SPECIFICATIONS

Engine	872G/GP		
Manufacturer and Model	John Deere PowerTech™ PSS 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech™ 9.0L
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II
Cylinders	6	6	6
Displacement	9.0L (548 cu. in.)	9.0L (548 cu. in.)	9.0L (548 cu. in.)
Net Engine Power			
Gear 1	175 kW (235 hp)	168 kW (225 hp)	168 kW (225 hp)
Gear 2	186 kW (250 hp)	179 kW (240 hp)	179 kW (240 hp)
Gear 3	198 kW (265 hp)	190 kW (255 hp)	190 kW (255 hp)
Gear 4	205 kW (275 hp)	198 kW (265 hp)	198 kW (265 hp)
Gear 5	209 kW (280 hp)	201 kW (270 hp)	201 kW (270 hp)
Gear 6	216 kW (290 hp)	209 kW (280 hp)	209 kW (280 hp)
Gear 7	224 kW (300 hp)	209 kW (280 hp)	209 kW (280 hp)
Gear 8	216 kW (290 hp)*	209 kW (280 hp)*	209 kW (280 hp)*
Net Peak Torque	1459 Nm (1,076 lb.-ft.)	1329 Nm (980 lb.-ft.)	1329 Nm (980 lb.-ft.)
Net Torque Rise	51%	48%	48%
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
*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 tire slip at 2,180 rpm, 14.0-R24 tires		
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)		

872G / GP SPECIFICATIONS

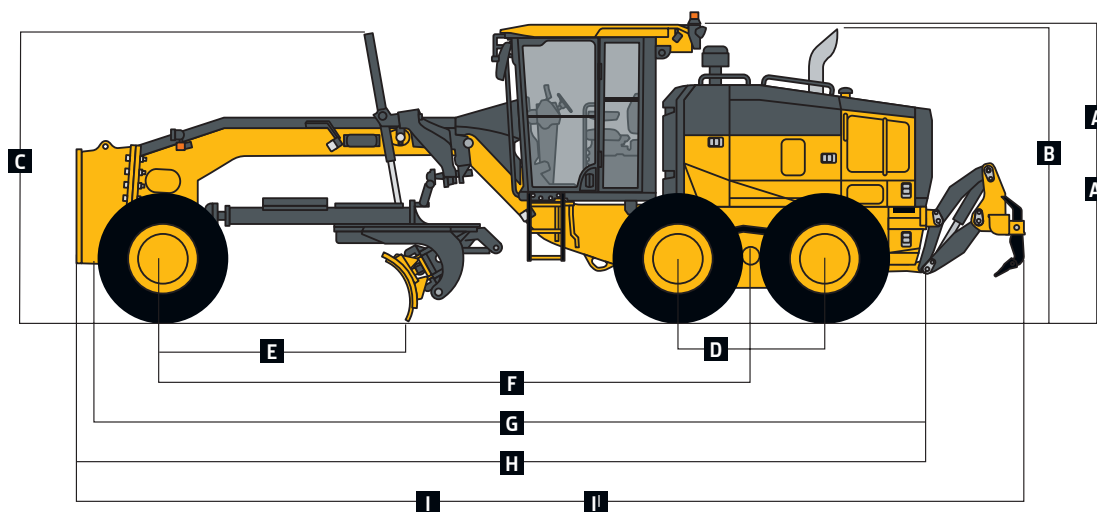


Hydraulics		872G/GP	
Type	Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump		
Maximum Pump Flow	218 L/min. (57.5 gpm)		
Maximum System Pressure	18 961 kPa (2,750 psi)		
Pump Displacement	90 cm³ (5.5 cu. in.)		
Blade Function			
All-hydraulic, industry-standard 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)	2329 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	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II	
Voltage	24 volt	24 volt	
Number of Batteries	2	2	
Battery Capacity	1,400 CCA	1,400 CCA	
Reserve Capacity	440 min.	440 min.	
Amp-Hour Rating	224 amp-hour	224 amp-hour	
Alternator Rating			
Base	130 amp	100 amp	
Optional	200 amp	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	1770 cm³ (108 cu. in.)		
Average Vertical Section at Saddle	2635 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	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			
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	4.27 m (168 in.) (14 ft. 0 in.)		
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		872G/GP
		<i>Front</i>
Type		V-type toolbar with manual 2-pitch positions and hydraulic float
Width of Cut		1.20 m (48 in.) (4 ft. 0 in.)
Number of Shanks/Teeth		5 (maximum capacity 9)
Lift Above Ground		589 mm (23.2 in.)
Maximum Depth		335 mm (13.2 in.)
Shank		
Spacing		146 mm (5.75 in.)
Size		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		
		<i>Ripper</i>
Width of Cut		2.21 m (87.2 in.) (7 ft. 3 in.)
Number of Shanks/Teeth		3 (maximum capacity 5)
Lift Above Ground		602 mm (23.7 in.)
Maximum Depth		426 mm (16.8 in.)
Force at Typical FT4 Weight		
Penetration		10 328 kg (22,770 lb.)
Pry-Out		14 404 kg (31,756 lb.)
Shank Size		61.5 x 133 mm (2.42 x 5.25 in.)
Operator Station		
Low-profile cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005)		
Tires/Wheels		
		<i>14R24 on 254-mm (10 in.) Rim</i>
Wheel Tread on Ground		2.08 m (82.0 in.)
Overall Width		2.49 m (98.0 in.)
Ground Clearance (front axle)		587 mm (23.1 in.)
		<i>17.5R25 on 356-mm (14 in.) Rim</i>
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.)
		<i>550/65R25 on 432-mm (17 in.) Rim</i>
Wheel Tread on Ground		2.21 m (87.0 in.)
Overall Width		2.77 m (109.0 in.)
Ground Clearance (front axle)		612 mm (24.1 in.)
Serviceability		
Refill Capacities		<i>EPA Final Tier 4/EU Stage IV</i>
Fuel Tank		416.5 L (110 gal.)
Diesel Exhaust Fluid (DEF) Tank		22.5 L (6 gal.)
Cooling System		55.0 L (14.5 gal.)
Engine Oil with Filter		28.4 L (7.5 gal.)
Transmission Fluid		23.5 L (6.2 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		60.5 L (16 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 ¾ in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator		
		<i>EPA Final Tier 4/EU Stage IV</i>
Front		5094 kg (11,230 lb.)
Rear		12 891 kg (28,420 lb.)
Total		17 985 kg (39,650 lb.)
Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment		
		<i>EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II</i>
Front		5103 kg (11,250 lb.)
Rear		12 242 kg (26,990 lb.)
Total		17 345 kg (38,240 lb.)
Front		6323 kg (13,940 lb.)
Rear		14 864 kg (32,770 lb.)
Total		21 187 kg (46,710 lb.)
Maximum Operating Weight		24 948 kg (55,000 lb.)

Option Weights	872G/GP
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 ¾ in.) cutting edge and 16-mm (⅝ 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 ¾ in.) cutting edge and 16-mm (⅝ 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 ¾ in.) cutting edge and 16-mm (⅝ 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 ¾ in.) cutting edge and 19-mm (¾ 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 ¾ in.) cutting edge and 19-mm (¾ 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.)
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	14 kg (31 lb.)
Circle-Drive Slip Clutch	9 kg (20 lb.)
Moldboard Impact-Absorption System	43 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 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 kg (1,833 lb.)
Mid-Mount with Teeth (11)	1481 kg (3,265 lb.)
Machine Dimensions	
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
A' 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.)

Option Weights (continued)	872G/GP
Front Lift Group (Balderson-style)	763 kg (1,682 lb.)
Tires	
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	14.5 kg (32 lb.)
Premium Air-Suspension, Heated Seat with Adjustable Arm- and Headrests	13 kg (28 lb.)
Coolant Heater	4 kg (9 lb.)
Quick Service	11 kg (24 lb.)
Sound-Absorption Package (machines equipped with Tier 3/Stage IIIA and Tier 2/Stage II engines only)	14 kg (31 lb.)
Secondary Steering	26 kg (58 lb.)
Beacon Bracket	8 kg (18 lb.)
Fire Extinguisher	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	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	7 kg (15 lb.)
Hydraulics for Front-Mounted Equipment	9 kg (19 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.)
II Overall Length with Scarifier and Ripper	10.59 m (34 ft. 9 in.)
For Overall Width see Tires/Wheels on page 28.	



Additional equipment

Key: ● Standard ▲ Optional or special See your John Deere dealer for further information.

622	672	772	872	Operator's Station
●	●	●	●	Low-profile ROPS/FOPS cab with HVAC (ROPS ISO 3471 / FOPS SAE 3449 Level II)
▲	▲	▲	▲	Low-profile ROPS/FOPS cab utilizing laminated glass with fixed lower front and side opening windows
▲	▲	▲	▲	Opening front and side windows (standard with Grade Pro)
●	●	●	●	Keyless start with multiple security modes
●	●	●	●	Fabric air-suspension seat with armrests and headrest
▲	▲	▲	▲	Premium heated, leather/fabric, high-wide-back, air-suspension seat with armrests (standard with Grade Pro)
●	●	●	●	Sealed-switch module with function indicators
●	●	●	●	Electric rear-window defroster
●	●	●	●	Upper front windshield washers with intermittent wipers
▲	●	●	●	Upper rear windshield washers with intermittent wipers
▲	▲	▲	▲	Lower front intermittent wiper and washer
▲	▲	▲	▲	Powered cab precleaner
▲	▲	▲	▲	Decelerator pedal
▲	▲	▲	▲	Flip-down, right- and/or left-hand cab beacon with bracket
●	●	●	●	Cab prewired for beacon, radio, and auxiliary circuit
▲	▲	▲	▲	Front window sun visor / retractable rear sunshade
●	●	●	●	Rearview mirrors, exterior (2) (SAE J985)
▲	▲	▲	▲	Heated exterior mirrors (2) (SAE J985)
▲	▲	▲	▲	Fire extinguisher
▲	▲	▲	▲	High-resolution rearview camera with dedicated monitor
●	●	●	●	Retractable seat belt, 76 mm (3 in.) (SAE 386)
▲	▲	▲	▲	AM/FM radio with auxiliary and Weather Band (WB)
▲	▲	▲	▲	AM/FM radio with Bluetooth®, auxiliary, and WB ready
●	●	●	●	Push-button-activated cruise control

622	672	772	872	Electrical
●	●	●	●	100-amp alternator
▲	▲	▲	▲	130-amp alternator
▲	▲	▲	▲	200-amp alternator (FT4/Stage IV)
●	●	●	●	Batteries (2), 1,400 CCA with 440-min. reserve capacity
▲	●	●	●	Left-hand engine compartment service-check light
▲	▲	▲	▲	Right-hand engine compartment service-check light
●	●	●	●	Transporting lights (4 halogen)
▲	▲	▲	▲	Grading lights (10 halogen lights)
▲	▲	▲	▲	Deluxe grading lights (18 halogen lights)
▲	▲	▲	▲	Premium grading lights (18 LED lights)
	▲	▲	▲	Tall front snowplow light bar
●	●	●	●	Multifunction/multi-language diagnostic LCD color monitor
●	●	●	●	Reverse warning alarm (SAE J994)
●	●	●	●	LED brake and turn lights
Moldboard				
Patented pre-stressed, high strength, wear resistant:				
●	●	●		3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x 7/8 in.)
	▲	▲	▲	3.66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.)
	▲	▲	▲	3.96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.)
▲	▲	▲		4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/8 in.)
	▲	▲	●	4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)
			▲	4.88 m x 686 mm x 25 mm (16 ft. x 27 in. x 1 in.)
●	●	●	●	Quick-change and jackscrew-adjustable moldboard side-shift extreme-duty wear inserts
▲	▲	▲		610-mm (24 in.) left- or right-hand extensions for 610-mm (24 in.) moldboard
		▲	▲	610-mm (24 in.) left- or right-hand extensions for 686-mm (27 in.) moldboard
▲	▲	▲	▲	Reversible overlay endbits

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions specified per ISO9249.

No derating is required up to 3050-m (10,000 ft.) altitude. Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on units with standard equipment; 14.0 x 610-mm (24 in.) 12 PR G2, Bias tires and 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 7/8 in.) high-strength, wear-resistant moldboards with 16-mm x 152-mm (0.63 in. x 6 in.) Dura-Max® through-hardened-steel cutting edges for the 622G, 672G, and 772G; and 17.5 R 635-mm (25 in.) L2, Radial tires and 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1 in.) high-strength, wear-resistant moldboards with 16-mm x 152-mm (0.63 in. x 6 in.) Dura-Max through-hardened-steel cutting edges for the 872G. Weights include lubricants, coolants, full fuel tanks, and 79-kg (175 lb.) operators.

Additional equipment *(continued)*

Key: ● Standard ▲ Optional or special See your John Deere dealer for further information.

622	672	772	872	Overall Vehicle
●	●	●	●	JDLink™ wireless communication system (available in specific countries; see your dealer for details)
●	●	●	●	Ground-level fuel and diesel exhaust fluid (DEF) filling
▲	●	●	●	Fluid-sampling ports for engine oil and coolant, hydraulic oil, and axle and transmission fluids
●	●	●	●	Vandal-protection locking for: Cab doors / Top tank radiator-access door / Engine coolant surge tank / Hydraulic reservoir cap / Battery-disconnect switch / Ground-level electrical master disconnect switch / Fuel-tank door and cap / Toolbox
●	●	●	●	Environmental drains with hoses for engine, transmission, hydraulic, differential fluids, and engine coolant
▲	●	●	●	Hydraulically driven cool-on-demand reversing fan
●	●	●	●	Banked easy-access vertical spin-on filters for hydraulic, transmission, and axle fluids
●	●	●	●	Engine rotary ejector precleaner
●	●	●	●	Automatic differential lock
●	●	●	●	Engine-stall prevention and auto shutdown
▲	▲	▲	▲	Adjustable rotary engine precleaner (FT4/Stage IV)
	▲	●	●	Heavy-duty air cleaner (FT4/Stage IV)
●	●	●		Single-input circle drive
▲	▲	▲		Single-input circle drive with slip clutch
	▲	▲	●	Heavy-duty dual-input circle drive without slip clutch
	▲	▲	▲	Heavy-duty dual-input circle drive with slip clutch
▲	▲	▲	▲	AutoShift transmission
▲	▲	▲	▲	Blade-impact-absorption system
▲	▲	▲	▲	Front and/or rear wheel fenders
▲	▲	▲	▲	Quick-service bank for transmission, hydraulic, engine oil, and engine coolant fluid changes
▲	▲	▲	▲	Secondary steering
	▲	▲	▲	Sound-absorption package (Tier 3/Stage IIIA and Tier 2/Stage II)
Automation				
▲	▲	▲	▲	Automation Suite including Auto-Articulation, Blade Flip, and Machine Presets (standard on SmartGrade™ models, optional on GP models)

622	672	772	872	Front Attachments
▲	▲	▲	▲	Front push block
▲	▲	▲	▲	V-type front scarifier with float position, 5 shanks
▲	▲	▲	▲	Mid-mount scarifier with float position, 11 shanks
▲	▲	▲	▲	Front Balderson-style lift group with float position
▲	▲	▲	▲	Front-mounted dozer blades
Rear Attachments				
●	●	●	●	Full bottom guard with access panel and side guards for rear vehicle protection
▲	▲	▲	▲	Rear-mounted ripper/scarifier combination with rear hitch and pin, 3 ripper shanks
▲	▲	▲	▲	Rear counterweight with rear hitch and pin
▲	▲	▲	▲	Rear hitch and pin
▲	▲	▲	▲	Extra scarifier shanks (9) with teeth for rear ripper scarifier
	▲	▲	▲	Extra ripper shanks (2) with teeth for rear ripper/scarifier
Grade Pro (GP) Option				
●	●	●	●	Low-profile GP cab with opening lower front and side windows
▲	▲	▲	▲	Low-profile GP cab utilizing laminated glass with fixed lower front and side opening windows
●	●	●	●	Premium heated, leather/fabric, high-wide-back, air-suspension seat with armrests
▲	▲	▲	▲	Dual-joystick controls
▲	▲	▲	▲	Fingertip armrest-mounted controls including steering lever
●	●	●	●	Steering wheel
●	●	●	●	Cross-slope
●	●	●	●	Return to straight
Grade Control				
▲	▲	▲	▲	SmartGrade
▲	▲	▲	▲	Mast mounts
▲	▲	▲	▲	Topcon ready available on G and GP models
▲	▲	▲	▲	Trimble ready available on G and GP models
▲	▲	▲	▲	Leica ready available on GP models

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DKAGGDR6 Litho in U.S.A. (19-01)