## G/GP-SERIES GRADERS

175–224 kW (235–300 hp)





Jobsite-optimization solutions include

factory- or field-installed grade-control

options that make it easy to add your

preferred system.

# So many options, one obvious choice.

Offering one-of-a-kind advantages and unequalled options, our G-Series Graders let you decide how the work gets done. Choose from full-featured Grade Pro (GP) models with state-of-the-art fingertip armrest controls. Or opt for conventional lever-operated machines. No matter which one you choose, both come with a steering wheel. In tandemor six-wheel-drive configurations. Loaded for bear, or barely loaded, each of these brawny blades comes standard equipped with the same heavy-duty durability and uptimeboosting features including a fluid-efficient PowerTech™ EPA Final Tier 4 (FT4)/EU Stage IV diesel. Easy-access filter bank. And simple-to-clean coolers. That's only the beginning. To learn about the value-added advantages that separate the G-Series from the rest of the pack, read on. Then contact your John Deere dealer for a demo.

Only our graders come standard with John Deere WorkSight™. It combines your machine, our technology, and your dealer to increase uptime and productivity while lowering operating costs. JDLink™ machine monitoring provides real-time machine-utilization Long-term durability is bolstered by and -health data, plus location informalarger-than-usual articulation joint tion. Prognostics proactively suggest maintenance to correct problems early roller bearings, big-displacement wetbefore they create costly downtime. sleeve diesel engines, and heavy-duty Remote diagnostics enable your dealer transmissions, to list just a few. to read diagnostic codes, record performance data, and even update Production-boosting GP features such software without a trip to the jobsite. as automated cross-slope control and

operator's game.

push-button-activated return-to-straight

make the most of a seasoned operator's

skills. And help improve an inexperienced

Fluid-efficient FT4/Stage IV John Deere diesel engines deliver generous displacement, power, and lugging ability.

872GP

Choose the operating system that works for you — fingertip armrest or low-effort mechanical controls. Either way, levers are arranged in the familiar industrystandard pattern, and deliver smooth, predictable response.



# Seeing is believing.

It's easy to see why these graders are becoming industry favorites. Visibility is clearly unsurpassed, with a large expanse of floor-toceiling tinted glass, narrow front console, and streamlined saddle arms giving way to a commanding view of the work at hand. What's more, the spacious walk-through cab's many amenities provide all of the fatique-beating comfort and quiet an operator could ever want. So you can count on the kind of productivity you need.

Which grader's visibility is truly best-in-class? Depends on where you're looking. On ours, you have an unobstructed view of the things you need to see. Like the heel and toe, and back side of the blade. Even the area beneath the front axle is clearly visible, so you can see oncoming obstacles.

We've got your back with large adjustable mirrors that give a clear view of the tandems and ripper.

Standard 15-amp converter (30-amp available) and two 12-volt outlets provide convenient power for cell phones and other electronic devices.

Highly efficient HVAC system employs 13 directional vents for superior allseason comfort. Sliding side glass and available swing-out lower front windows add ventilation.

Storage is generous with numerous overhead compartments, plus a place for a beverage, cooler, cell phone, and other carryons.

Push-button-activated cruise control helps reduce operator fatique. Simply depress the brake or throttle pedals to return to manual operation.

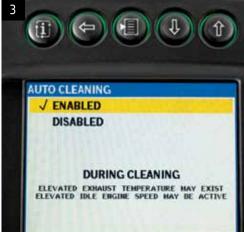
Narrow center console and streamlined saddle bring the blade and front tires within focus. On GP models (shown), control linkages are eliminated and large lower front windows further enhance visibility.

Tinted glass, adjustable front and rear shades, and extended roofline help reduce glare. Standard front and rear intermittent wipers and rear window defogger also help keep the view clear.













- Sealed-switch module provides push-button control of 25 machine functions including keyless start. When enabled, keyless start requires a numeric pass code that helps prevent unauthorized machine operation.
- For an unrestricted rear view, equip your grader with an optional camera. Its dedicated high-resolution color LCD monitor is positioned above the center mirror where it's easy to view.
- 3. Multi-language LCD monitor gives pushbutton access to a wealth of machine info including vital and general operating conditions and diagnostic codes. Exhaust filter operation and maintenance status are indicated with on-screen displays.
- 4. Work before or after daylight? Optional highly durable LED work lights provide optimum illumination to help show the way.

# The genius behind our grader controls.

Armed with input from the people who run them, we set out to design the ideal operating system for our next-generation graders. You talked, we listened, and that's why we offer a choice.

For unsurpassed productivity with a grade-control system, opt for a GP model. Eight armrest-mounted fingertip-actuated controls, including steering lever, are arranged in the industry-standard pattern on each side of the standard steering wheel. Unlike the joysticks used in other graders, your operator won't have to relearn the controls. Or be concerned about unintentionally actuating hydraulic functions when turning, backing up, working on a slope, or V-ditching.

No extra levers required for grade control. Instead, knob-integrated push buttons provide convenient, fingertip activation.

Beyond their predictable operatorfriendly controls, GP models come equipped with cross-slope and returnto-straight, and are ready to add the grade-control system of your choice. These and numerous other valueadded advantages quickly pay for themselves in increased productivity.









- 1. With high/wide-back and heated lower cushion, the GP grader's air-suspension seat provides exceptional daylong comfort.
- 2. Automated cross-slope simplifies holding a consistent slope by reducing operation to a single lever. An operator simply selects the desired slope and the side of the blade that will be manually controlled. Once set, the system automatically adjusts the opposite blade-lift cylinder to maintain the slope. It's a Grade Pro exclusive that helps veteran operators be their best and inexperienced operators get up-to-speed more quickly.
- 3. Slope-indicator screen can be used as an electronic slope meter. This screen indicates blade position in relation to the desired slope — to help stay on grade.
- **4.** At the touch of a button, return-to-straight automatically straightens an articulated frame. For quicker work cycles.
- 5. Only John Deere offers you a choice of controls. Our G-Series models come standard equipped with conventional mechanical levers positioned in the industryaccepted pattern and deliver precise, predictable low-effort control. A steering wheel is also included as standard equipment.







and operation, too. You won't find easier-running graders, either. Our exclusive Event-Based Shifting (EBS) transmission delivers smooth-as-silk gear and direction changes, for exceptional control and grading precision without extra effort. There's nothing else like them.









- 1. Generous throat clearance between the top of the blade and bottom of the circle provides smooth material flow across the blade. Plenty of blade clearance makes it easy to navigate over obstacles, too.
- 2. Jackscrew-adjusted side-shift wear inserts keep the moldboard tight and precise. Takes only minutes to return tolerances to factory spec.
- Exclusive ball-and-socket draft-frame pivot and seven-position saddle provide best-in-class blade setup and improved ditch cutting, ditch cleaning, and reach outside the tires.

Our "open-architecture" design lets you employ your favorite brand of grade-control system. GP models come factory equipped with bulkhead connectors, sensor mounts, electrical wiring harnesses, integrated controls, and exclusive universal moldboard mast mounts. So adding a grade-control system is neat, quick, and noninvasive.

For the most seamless grade-control solution, choose between our factory-installed options with a Topcon 3D-MC<sup>2</sup> grade-control system or a Trimble base kit ready to go when you take delivery of your GP Motor Grader.

When engine-stall prevention senses an overload, the system automatically shifts the transmission to neutral, allowing the engine to recover, and issues a visual alert. This John Deere exclusive helps prolong uptime and engine life.

With five true working speeds below 16 km/h (10 mph) and a top speed of 45 km/h (28 mph), it's easy to match ground speed to the work. AutoShift option automatically shifts gears four through eight, for even easier operation.

Optimized moldboard curvature and generous circle torque help keep blades heaped and loads rolling.

Automatic differential lock stays engaged when travelling straight, disengages in turns exceeding 10 deg., and re-engages when returning to straight.

Best-in-class lever efforts are combined with Pressure-Compensated Load-Sensing (PCLS) hydraulics to ensure consistent, predictable, and precise response.

Choose from front scarifier, mid-mount scarifier, or rear scarifier/ripper. There's also a front-lift option that simplifies adding a bulldozer blade or V-plow.

# Nothing runs like a Deere, because nothing is built like one.

Downtime is lost time. Which is why we loaded-up these graders with durability-enhancing advantages that promise to deliver years of trouble-free service. Large-displacement heavy-duty wet-sleeve diesel engines. Larger-than-usual axle shafts, differential locks, hydraulic cylinders, and front axles. Biggest-in-class articulation joint roller bearings. And solid-state electronics and sealed-switch modules, to list just a few. When you know how they're built, you'll run a John Deere.

Standard hydraulically driven coolon-demand variable-speed reversing fan automatically cycles at operatorselected intervals to eject debris from the radiator and cooler cores. It also slows when the engine is idling to reduce fuel consumption and bystander noise levels.

Exclusive auto shutdown turns off the engine after an operator-determined time of idling. Saves fuel and reduces wear on engine, transmission, and hydraulic components.

Self-adjusting wet-disc brakes are mounted inboard, where they run cool, clean, and unexposed to corrosive materials.

Purpose-built PowerShift™ transmission employs durable heavy-duty clutches and bearings, for reliable performance, shift after shift.

Separate transmission, hydraulic, and axle filtration and cooling systems prevent cross-contamination for longer component life.

John Deere PowerTech FT4/Stage IV diesel engines meet stringent emission regulations without sacrificing power or torque. Plus, they deliver even better total fluid efficiency than the IT4/Stage IIIB engines they replace.





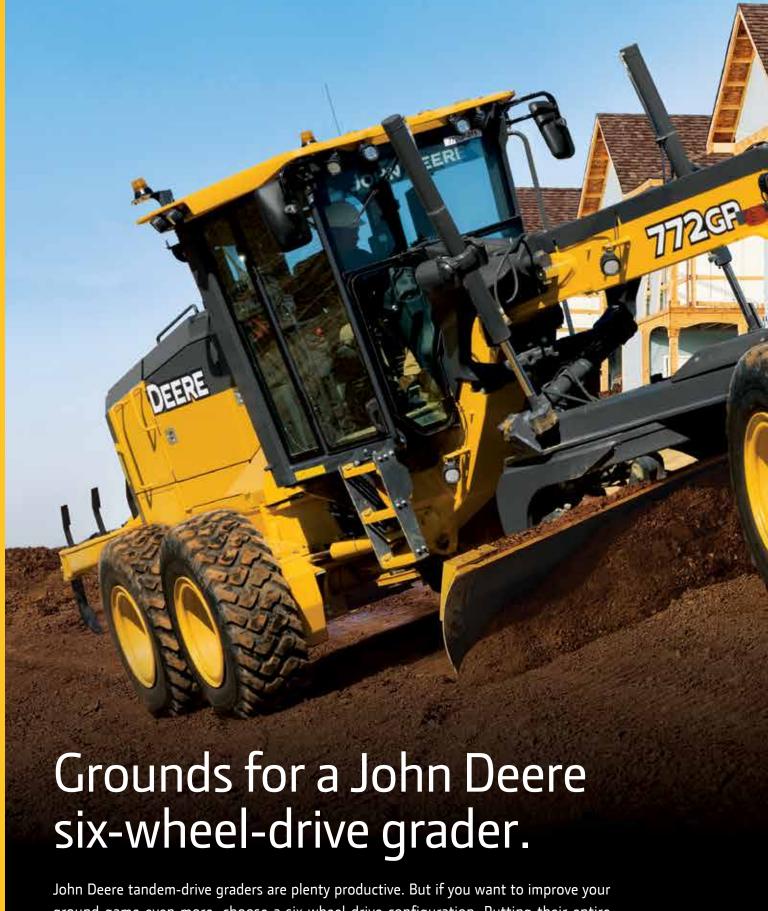






- Sealed-switch module and electrical center employ circuit-board technology that reduces connections from 25 to one, and wires from 100 to four. Solid-state seals and switches keep out moisture and debris, and are proven reliable for more than two million cycles.
- Exclusive heavy-duty dual-drive circle gearbox delivers significantly increased durability in heavy-loaded applications. Standard on 870G/GP and 872G/GP, it's optional on others.
- 3. High-strength circle and draft frame withstand high-impact loads. Available blade-impact system further protects structural components from damage caused by run-ins with obstructions.





John Deere tandem-drive graders are plenty productive. But if you want to improve your ground game even more, choose a six-wheel-drive configuration. Putting their entire weight and all six tires to work, their job-proven dual-path hydrostatic drive boosts productivity in all kinds of work. And enables them to accomplish almost everything easier and with fewer passes than their conventional counterparts.



# Open wide and be awed.

Unlatch the large side panels and you'll discover the many ways these graders minimize maintenance. And help keep daily operating costs low. Our exclusive pivoting coolers and hinged fan provide wide-open access to both sides of the cores for simplified clean-out. Grouped same-side service points make quick work of the daily routine. Easy-to-check sight gauges and fluid reservoirs. Quick-change filters. Convenient fluid-sample ports and advanced self-diagnostics — the G-Series is loaded with time- and money-saving features that help keep maintenance manageable.

- 1. Available quick fluid-service ports help speed servicing to increase uptime. 500-hour engine oil/filter; 2,000-hour transmission oil/filter, hydraulic filter, and rear axle oil/filter; and 4,000-hour hydraulic and tandem oil-service intervals minimize maintenance.
- Ground-level fuel and nearby diesel exhaust fluid (DEF) fill access help speed servicing for more uptime. There's also a fast-fuel option available.
- Maintenance personnel will appreciate the unique easyaccess hydraulic, transmission, and differential filter bank.
- Two-hour replaceable supertough nylon or bronze draft frame and circle wear inserts minimize maintenance labor.
- 5. Should a problem arise, easy-tonavigate LCD monitor provides diagnostic info and even offers possible troubleshooting solutions to decrease downtime.











Engine	670G/GP			
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 Emissions Standard	EPA Final Tier 4/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 1	127 kW (170 hp)	118 kW (158 hp)	115 kW (154 hp)	115 kW (154 hp)
Gear 2	138 kW (185 hp)	121 kW (162 hp)	120 kW (161 hp)	120 kW (161 hp)
Gear 3	149 kW (200 hp)	129 kW (173 hp)	129 kW (173 hp)	129 kW (173 hp)
Gear 4	157 kW (210 hp)	138 kW (185 hp)	132 kW (177 hp)	132 kW (177 hp)
Gear 5	160 kW (215 hp)	148 kW (198 hp)	135 kW (181 hp)	135 kW (181 hp)
Gear 6	168 kW (225 hp)	153 kW (205 hp)	138 kW (185 hp)	138 kW (185 hp)
Gear 7	172kW (230 hp)	153 kW (205 hp)	145 kW (195 hp)	138 kW (185 hp)
Gear 8	175 kW (235 hp)	157 kW (210 hp)	150 kW (202 hp)	138 kW (185 hp)
Net Peak Torque	1230 Nm (907 lbft.)	1124 Nm (829 lbft.)	848 Nm (625 lbft.)	848 Nm (625 lbft.)
Net Torque Rise	67%	77%	30%	45%
Aspiration	Series turbocharged, charge- air cooled			Turbocharged, charge-air cooled
Lubrication	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and int	egral 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
Cooling				
Cooling-on-demand, hydraulic-driven, variable-speed fan drive to optimize fuel consumption; standard auto-reversing fan to keep coolers clean; swing-out rear fan door and pivoting or foldout coolers for easy cleaning of all cooling components				
Engine Coolant, Extended Life, Rating	–37 deg. C (–34 deg. F)			
Powertrain				
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 (forward and reverse)	With no tire slip at 2,180 rpm	, 14R24 tires		
•				

4.0 km/h (2.5 mph) Gear 1 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) 23.2 km/h (14.4 mph) Gear 6 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)

Differentials Steering (all models include steering

Turning Radius (front steer and articulation)

Articulation (both right and left)

**Final Drives** 

Primary and Secondary Brakes Parking Brake

**Brakes** 

20 deg. 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 (GP) option 7.21 m (23 ft. 8 in.)

Inboard-mounted planetary sealed in cooled, filtered oil

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

Hydraulically actuated, inboard of tandem pivot, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 3450) Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)



Hydraulics 670G/GP

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

Maximum Pump Flow212 L/min. (56 gpm)Maximum System Pressure18 961 kPa (2,750 psi)Pump Displacement90 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 (6 ft. 10 in.)

Bank Cut Angle (right or left) 90 deg.

Productivity

12 800 kg (28,220 lb.)

Blade Pull (maximum weight [21 228 kg (46,800 lb.)], 0.9 coefficient of traction)

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 / 200 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 (12 ft. 0 in.) Height (measured along arc, including 610 mm (24 in.)

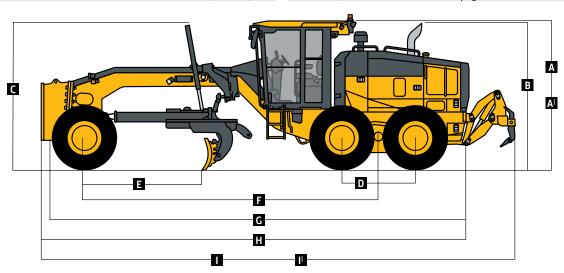
cutting edge)

Thickness 22 mm (0.88 in.)

Cutting Edge	670G/GP	
Dura-Max™ through-hardened steel edge	0/00/01	
Thickness	16 mm (0.62 in.)	
Width	152 mm (6 in.)	
Scarifiers	132 11111 (0 111.)	
	Front	Mid-mount
Туре	Parallel-linkage V-type toolbar with manual 2-pitch posi-	Radial linkage, with NeverGrease™ pin joints; V-type tool-
5F -	tions, with hydraulic float	bar 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)	25 x 7 0 mm (1 x 5 m)	25 x 7 0 11111 (1 x 5 1111)
Parallel linkage, mechanical pins, and hydrau	lic float	
Lift		
Above Ground (top of tube)	1864 mm (73.4 in.)	
Range	988 mm (38.9 in.)	
Rear Ripper/Scarifier	300 mm (30.5 m.)	
Parallel linkage, with NeverGrease pin joints,	hydraulic float, and integrated hitch	
mage, men vever arease pin joints,	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	01.3 x 133 mm (2.12 x 3.23 m.)	25 x 7 0 11111 (1 x 5 111.)
Low-profile cab with ROPS (ISO 3471-2008)	and FOPS (ISO 3449-2005)	
Tires/Wheels	and 1 Of 3 (130 3443-2003)	
THESP VALLETS	14R24 on 254-mm (10 in.) Rim	17.5R25 on 356-mm (14 in.) Rim
Overall Width	2.49 m (98 in.)	2.64 m (104 in.)
Ground Clearance (front axle)	587 mm (23.1 in.)	587 mm (23.1 in.)
Serviceability	507 Hilli (25.1 Hi.)	507 IIIII (25.1 III.)
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.)	410.3 L (110 gai.)
Cooling System	22.3 L (0 gai.)	_
		// 01 /11 6 apl )
6.8L Engine 9.0L Engine	— EE OL (1/4 E col.)	44.0 L (11.6 gal.)
3	55.0 L (14.5 gal.)	48.5 L (12.8 gal.)
Engine Oil with Filter		36.01.16.01.)
6.8L Engine	— 27 01 /7 1  )	26.0 L (6.9 gal.)
9.0L Engine Transmission Fluid	27.0 L (7.1 gal.)	27.0 L (7.1 gal.)
	28.4 L (7.5 gal.)	28.4 L (7.5 gal.) 38.0 L (10 gal.)
Differential Housing Tandem Housings (each)	38.0 L (10 gal.)	· • ·
J , ,	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 <sup>5</sup> / <sub>8</sub> in.) Cutting		
Edges, 14R24 Bias L2 Tires, and 79-kg (175 lb.)	EDA Final Tier // /ELL Stage IV	EDA Tion 3/ELL Stage IIIA and EDA Tion 3/ELL Stage II
Operator	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II 4191 kg (9,240 lb.)
Front	4178 kg (9,210 lb.)	j ( , , , , , , , , , , , , , , , , , ,
Rear	11 798 kg (26,010 lb.)	11 149 kg (24,580 lb.)
Total	15 976 kg (35,220 lb.)	15 340 kg (33,820 lb.)
Typical Operating Weight with Front Push		
Block, Rear Ripper/Scarifier, and Other		
Equipment	EE07 kg (12 1/0 lb )	E/70 kg (12 000 lb )
Front	5507 kg (12,140 lb.)	5479 kg (12,080 lb.)
Rear	13 698 kg (30,200 lb.)	12 887 kg (28,410 lb.)
Total	19 205 kg (42,340 lb.)	18 366 kg (40,490 lb.)
Maximum Operating Weight	21 228 kg (46,800 lb.)	21 228 kg (46,800 lb.)

Option Weights	670G/GP
Moldboards with Through-Hardened Dura-Max Cutting Edge	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)	0 kg (0 lb.)
with 152-mm x 16-mm (6 in. x 5/8 in.) cutting edge	0 kg (0 lb.)
and 16-mm (5/8 in.) hardware	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)	45 kg (99 lb.)
with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge	13 kg (33 lb.)
and 16-mm (5/8 in.) hardware	
3.66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.)	126 kg (277 lb.)
with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge	120 kg (277 lb.)
and 16-mm (5/8 in.) hardware	
3.96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.)	180 kg (396 lb.)
with 203-mm x 19-mm (8 in. x 3/4 in.) cutting edge	. 00 kg (550 ibi)
and 16-mm (5/8 in.) hardware	
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)	105 kg (231 lb.)
with 152-mm x 16-mm (6 in. x 5/8 in.) cutting edge	<b>3</b> ( ,
and 16-mm (5/8 in.) hardware	
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)	157.4 kg (347 lb.)
with 203-mm x 19-mm (8 in. $x^{3}/4$ in.) cutting edge	- 5( /
and 16-mm (5/8 in.) hardware	
4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)	251.3 kg (554 lb.)
with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge	<b>.</b> . ,
and 16-mm (5/8 in.) hardware	
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.)
Heavy-Duty Dual-Input Circle-Drive Gearbox	14 kg (31 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	1139 kg (2,510 lb.)
Shanks (3)	
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	. 550 mg (2)550 ms./
Front Mount with Teeth (5)	831.4 kg (1,833 lb.)
Machine Dimensions	031.1 kg (1,033 lb.)
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
Al 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.)
r plane pase	2.37 111 (0 11. 3 111.)

Option Weights (continued)	670G/GP
Scarifier (continued)	
Mid-Mount with Teeth (11)	1481 kg (3,265 lb.)
Front Lift Group (Balderson-style)	762.9 kg (1,682 lb.)
Dozer Blade, Front Mounted	
2464 mm x 955 mm (97 in. x 37.6 in.)	519 kg (1,146 lb.)
2667 mm x 955 mm (105 in. x 37.6 in.)	590 kg (1,301 lb.)
Tires	
14.00-24, 12 PR G2	0 kg (0 lb.)
17.5-25, 12 PR G2/L2	114.3 kg (252 lb.)
14.00-R24, Radial, G2/L2 General Purpose	220.4 kg (486 lb.)
14.00-R24, Radial, G2/L2 Snow	261.3 kg (576 lb.)
17.5-R25, Radial, L2 General Purpose	272.2 kg (600 lb.)
17.5-R25, Radial, G2/L2 Snow	315.7 kg (696 lb.)
17.5-R25, Radial, G3/L3 General Purpose	362.0 kg (798 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.)	65.3 kg (144 lb.)
Multi-Piece Rims	
254 mm x 610 mm (10 in. x 24 in.)	179.6 kg (396 lb.)
356 mm x 635 mm (14 in. x 25 in.)	266.7 kg (588 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.)
Premium Air-Suspension, Heated Seat with Adjustable	12.7 kg (28 lb.)
Arm- and Headrests	<u> </u>
Fast-Fill Fuel System	13.6 kg (30 lb.)
Quick Service	10.9 kg (24 lb.)
Sound-Absorption Package (machines equipped with	14.1 kg (31 lb.)
Tier 3/Stage IIIA and Tier 2/Stage II engines only)	•
Secondary Steering	26.3 kg (58 lb.)
Beacon Bracket	8.2 kg (18 lb.)
Fire Extinguisher	14.5 kg (32 lb.)
Lighting Packages	j , ,
10 Halogen Lights	4.5 kg (10 lb.)
16 Halogen Lights	7.3 kg (16 lb.)
18 Halogen and/or LED Lights	8.2 kg (18 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	6.8 kg (15 lb.)
Hydraulics for Front-Mounted Equipment	8.6 kg (19 lb.)
Machine Dimensions (continued)	,
F Wheelbase	6.16 m (20 ft. 3 in.)
<b>G</b> Overall Length	8.89 m (29 ft. 2 in.)
H Overall Length with Scarifier	9.69 m (31 ft. 9 in.)
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 18.	, , , , , , , , , , , , , , , , , , , ,





Engine	672G/GP			
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 Emissions Standard	EPA Final Tier 4/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 1 (6WD on)	142 kW (190 hp)	129 kW (173 hp)	129 kW (173 hp)	129 kW (173 hp)
Gear 2 (6WD on)	153 kW (205 hp)	132 kW (177 hp)	132 kW (177 hp)	132 kW (177 hp)
Gear 3 (6WD on)	164 kW (220 hp)	140 kW (188 hp)	135 kW (181 hp)	135 kW (181 hp)
Gear 4 (6WD on)	172 kW (230 hp)	149 kW (200 hp)	136 kW (182 hp)	136 kW (182 hp)
Gear 5 (6WD on)*	175 kW (235 hp)	157 kW (210 hp)	135 kW (181 hp)	135 kW (181 hp)
Gear 6 (6WD on)*	183 kW (245 hp)	163 kW (218 hp)	138 kW (185 hp)	138 kW (185 hp)
Gear 7 (6WD on)*	190 kW (255 hp)	163 kW (218 hp)	145 kW (195 hp)	138 kW (185 hp)
Gear 8	183 kW (245 hp)	164 kW (220 hp)	150 kW (202 hp)	138 kW (185 hp)
Net Peak Torque	1273 Nm (939 lbft.)	1152 Nm (850 lbft.)	848 Nm (625 lbft.)	848 Nm (625 lbft.)
Net Torque Rise	54%	72%	30%	45%
Aspiration	Series 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	Dual element, dry
*6WD is active in gears 1–7 only on machines equipped with FT4/Stage IV engines. 6WD is active in gears 1–4 on machines equipped with Tier 3/Stage IIIA and Tier 2/Stage II engines.				

Cooling-on-demand, hydraulic-driven, variable-speed fan drive to optimize fuel consumption; standard auto-reversing fan to keep coolers clean; swing-out rear fan door and pivoting or foldout coolers 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) 1-7 forward and reverse (IT4/Stage IIIB engine only) / 1-4 forward and reverse (Tier 3/Stage IIIA and Tier 2/Stage II engines)

6-Wheel-Drive Effective Gears

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<sup>3</sup> (3.9 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

**Maximum Travel Speeds (forward** and reverse)

With no tire slip at 2,180 rpm, 14R24 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) 10.9 km/h (6.8 mph) Gear 4 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)

**Differentials** Steering (all models include steering

wheel)

Turning Radius (front steer and

articulation)

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 (GP) option

7.21 m (23 ft. 8 in.)

Articulation (both right and left)

22 deg.



Powertrain (continued) 672G/GP

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

Brakes Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both independent

systems effective on all 4 tandem wheels

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

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

**Hydraulics** 

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

Maximum Pump Flow212 L/min. (56 gpm)Maximum System Pressure18 961 kPa (2,750 psi)Pump Displacement90 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)

Bank Cut Angle (right or left) 90 deg.

**Productivity** 

Blade Pull (maximum weight [21 228 kg 17 587 kg (38,773 lb.)

(46,800 lb.)], 0.9 coefficient of traction)

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 / 200 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

2083 mm (6 ft. 10 in.)

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 (12 ft. 0 in.) Height (measured along arc, including 610 mm (24 in.)

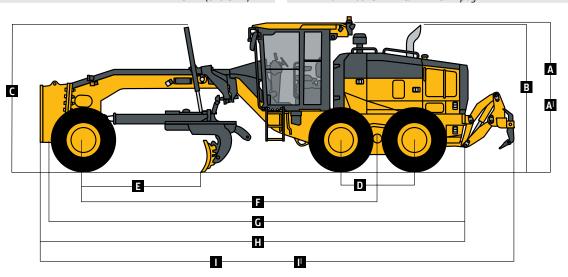
cutting edge)

Thickness 22 mm (0.88 in.)

Cutting Edge	672G/GP	
Dura-Max™ through-hardened steel edge		
Thickness	16 mm (0.62 in.)	
Width	152 mm (6 in.)	
Scarifiers	.32 (0)	
	Front	Mid-mount
Type	Parallel-linkage V-type toolbar with manual 2-pitch posi-	Radial linkage, with NeverGrease™ pin joints; V-type tool-
, i	tions, with hydraulic float	bar 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 hydraul	ic 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) a	nd FOPS (ISO 3449-2005)	
Tires/Wheels		
	14R24 on 254-mm (10 in.) Rim	17.5R25 on 356-mm (14 in.) Rim
Overall Width	2.49 m (98 in.)	2.64 m (104 in.)
Ground Clearance (front axle)	587 mm (23.1 in.)	587 mm (23.1 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		
6.8L Engine	_	44.0 L (11.6 gal.)
9.0L Engine	55.0 L (14.5 gal.)	48.5 L (12.8 gal.)
Engine Oil with Filter		
6.8L Engine	_	26.0 L (6.9 gal.)
9.0L Engine	27.0 L (7.1 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	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Front	4781 kg (10,540 lb.)	4790 kg (10,560 lb.)
Rear	12 215 kg (26,930 lb.)	11 567 kg (25,500 lb.)
Total	16 996 kg (37,470 lb.)	16 357 kg (36,060 lb.)
Typical Operating Weight with Front Push		
Block, Rear Ripper/Scarifier, and Other		
Equipment		
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	21 228 kg (46,800 lb.)	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 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	251.3 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.)
Heavy-Duty Dual-Input Circle-Drive Gearbox	14 kg (31 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.)
Machine Dimensions	
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
A <sup>I</sup> Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)
<b>B</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.)
<b>D</b> 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
Scarifier (continued)	
Mid-Mount with Teeth (11)	1481 kg (3,265 lb.)
Front Lift Group (Balderson-style)	762.9 kg (1,682 lb.)
Dozer Blade, Front Mounted	
2464 mm x 955 mm (97 in. x 37.6 in.)	519 kg (1,146 lb.)
2667 mm x 955 mm (105 in. x 37.6 in.)	590 kg (1,301 lb.)
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.)
Premium Air-Suspension, Heated Seat with Adjustable	12.7 kg (28 lb.)
Arm- and Headrests	<b>3</b> . ,
Fast-Fill Fuel System	13.6 kg (30 lb.)
Quick Service	10.9 kg (24 lb.)
Sound-Absorption Package (machines equipped with	14.1 kg (31 lb.)
Tier 3/Stage IIIA and Tier 2/Stage II engines only)	J. ,
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	3.6 kg (8 lb.)
16 Halogen Lights	6.8 kg (15 lb.)
18 Halogen and/or LED Lights	8.2 kg (18 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	6.8 kg (15 lb.)
Hydraulics for Front-Mounted Equipment	8.6 kg (19 lb.)
Machine Dimensions (continued)	0.0 kg (13 lb.)
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.)
Overall Length with Scanner     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 22.	(.ווו כ .וו דכן ווו ככ.טי
To Overall Width see Thes Wileels on page 22.	





Engine	770G/GP		
Manufacturer and Model	John Deere PowerTech™ PSS 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech™ 9.0L
Non-Road Emissions 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	142 kW (190 hp)	123 kW (165 hp)	123 kW (165 hp)
Gear 2	153 kW (205 hp)	125 kW (167 hp)	125 kW (167 hp)
Gear 3	164 kW (220 hp)	137 kW (184 hp)	137 kW (184 hp)
Gear 4	172 kW (230 hp)	148 kW (198 hp)	148 kW (198 hp)
Gear 5	175 kW (235 hp)	160 kW (214 hp)	160 kW (214 hp)
Gear 6	183 kW (245 hp)	174 kW (233 hp)	174 kW (233 hp)
Gear 7	186 kW (250 hp)	181 kW (243 hp)	181 kW (243 hp)
Gear 8	190 kW (255 hp)	181 kW (243 hp)	181 kW (243 hp)
Net Peak Torque	1318 Nm (972 lbft.)	1227 Nm (905 lbft.)	1227 Nm (905 lbft.)
Net Torque Rise	64%	63%	63%
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled
Lubrication	Full-flow spin-on filter and integral	Full-flow spin-on filter and integral	Full-flow spin-on filter and integral
	cooler	cooler	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 co	onsumption; standard auto-reversing fan	to keep coolers clean; swing-out rear fa
door and pivoting or foldout coolers fo	r easy cleaning of all cooling components		
Engine Coolant, Extended Life, Rating	–37 deg. C (–34 deg. F)		
Powertrain			
Transmission		", modulated shift-on-the-go, Event-Base ration and cooling system with 117-L/mi	31 1
Gears	· ·		
Forward	8		
Reverse	8		

Reverse 8
Maximum Travel Speeds (forward With no tire slip at 2,180 rpm, 14R24 tires

## Maximum Travel Speeds (forward and reverse) Gear 1 With no tire slip at 2,1 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 fabricati

Front Axle Heavy-duty welded fabrication
Oscillation (total) 32 deg.

Wheel Lean Angle (each direction) 2

Differentials S

Steering (all models include steering wheel)

Turning Radius (front steer and articulation)

Articulation (both right and left)
Final Drives

Primary and Secondary Brakes
Parking Brake

Brakes

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 (GP) option 7.21 m (23 ft. 8 in.)

22 deg.

Inboard-mounted planetary sealed in cooled, filtered oil

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

. Hydraulically actuated, inboard of tandem pivot, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 3450) Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)



770G/GP

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<sup>3</sup> (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. 2083 mm (6 ft. 10 in.)

Shoulder Reach Outside Wheels (frame

straight, right or left)

Bank Cut Angle (right or left)

**Productivity** 

Blade Pull (maximum weight [21 772 kg

13 150 kg (28,990 lb.)

(48,000 lb.)], 0.9 coefficient of traction) **Electrical** 

90 deg.

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 / 200 amp

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

hazard warning lights

Mainframe

Type Welded box construction Width (minimum) 307 mm (12.1 in.) Height (minimum) 307 mm (12.1 in.) Thickness

16 mm (0.63 in.) Side 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

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

3.66 m (12 ft. 0 in.) Base Length Height (measured along arc, including 610 mm (24 in.)

cutting edge)

Thickness 22 mm (0.88 in.)

**Cutting Edge** 

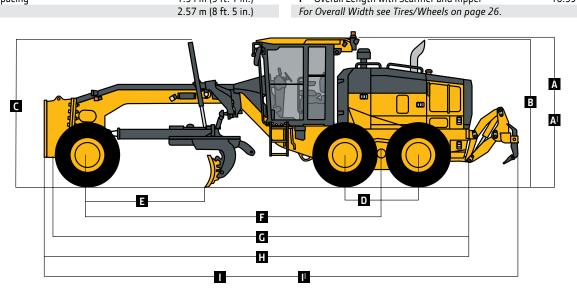
Dura-Max™ through-hardened steel edge

16 mm (0.62 in.) Thickness Width 152 mm (6 in.)

Scarifiers	770G/GP	
	Front	Mid-mount
Туре	Parallel-linkage 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	555 mm (151 <u>2</u> mm)	323 ( · 2.6)
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)	23 x 7 3 mm (1 x 3 mm)	
Parallel linkage, mechanical pins, and hydraul	ic float	
Lift	ic nout	
Above Ground (top of tube)	1864 mm (73.4 in.)	
Range	988 mm (38.9 in.)	
Rear Ripper/Scarifier	300 mm (30.3 m.)	
Parallel linkage, with NeverGrease pin joints,	hydraulic float, and integrated hitch	
i araner ilinage, with Nevertrease pin Joilits,	Ripper	Scarifier
Width of Cut	2.21 m (7 ft. 3 in.)	2.18 m (7 ft. 2 in.)
Number of Shanks/Teeth	•	, ,
Lift Above Ground	3 (maximum capacity 5) 602 mm (23.7 in.)	None standard (maximum capacity 9) 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	nd EODS (ISO 3///0 2005)	
Low-profile cab with ROPS (ISO 3471-2008) a	11U FUP3 (13U 3443-2003)	
Tires/Wheels	1/02/ 25/ /10 :- 10:	17 FD25 256 /1/ \D'
O - H.W. Int-	14R24 on 254-mm (10 in.) Rim	17.5R25 on 356-mm (14 in.) Rim
Overall Width	2.49 m (98 in.)	2.64 m (104 in.)
Ground Clearance (front axle)	587 mm (23.1 in.)	587 mm (23.1 in.)
Serviceability	FDA F: LT: //FU.C: N/	EDATE DIFFLEE WAS LEDATE DIFFLEE.
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.)	— (0.51/13.0 l)
Cooling System	55.0 L (14.5 gal.)	48.5 L (12.8 gal.)
Engine Oil with Filter	27.0 L (7.1 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	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Front	4305 kg (9,490 lb.)	4314 kg (9,510 lb.)
Rear	12 084 kg (26,640 lb.)	11 440 kg (25,220 lb.)
Total	16 388 kg (36,130 lb.)	15 753 kg (34,730 lb.)
Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment		
Front	5570 kg (12,280 lb.)	5605 kg (12,358 lb.)
Rear	13 825 kg (30,480 lb.)	13 175 kg (29,047 lb.)
Total	19 396 kg (42,760 lb.)	18 781 kg (41,405 lb.)
Maximum Operating Weight	21 772 kg (48,000 lb.)	21 772 kg (48,000 lb.)

Option Weights	770G/GP
Moldboards with Through-Hardened Dura-Max	
Cutting Edge	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)	0 kg (0 lb.)
with 152-mm x 16-mm (6 in. x <sup>5</sup> / <sub>8</sub> in.) cutting edge	
and 16-mm (5/8 in.) hardware	/.E.l (00 lb.)
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x $^{7}$ / <sub>8</sub> in.) with 203-mm x 19-mm (8 in. x $^{3}$ / <sub>4</sub> in.) cutting edge	45 kg (99 lb.)
and 16-mm (5/8 in.) hardware	
3.66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.)	126 kg (277 lb.)
with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge	
and 16-mm (⁵/₃ in.) hardware	
3.96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.)	180 kg (396 lb.)
with 203-mm x 19-mm (8 in. x $^{3}/_{4}$ in.) cutting edge	
and 16-mm (⁵/₃ in.) hardware	
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)	105 kg (231 lb.)
with 152-mm x 16-mm (6 in. x 5/8 in.) cutting edge	
and 16-mm (⁵/₅ in.) hardware 4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x <sup>7</sup> /₅ in.)	157.4 kg (347 lb.)
with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge	137.4 kg (347 lb.)
and 16-mm (5/8 in.) hardware	
4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)	251.3 kg (554 lb.)
with 203-mm x 19-mm (8 in. x 3/4 in.) cutting edge	<b>3</b>
and 16-mm (⁵∕₃ in.) hardware	
4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)	260.8 kg (575 lb.)
with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge	
and 19-mm ( <sup>3</sup> / <sub>4</sub> in.) hardware	
Extensions, 610 mm (2 ft.) (right or left)	00 0 1 (210 15.)
For Use with 610-mm (24 in.) Moldboards For Use with 686-mm (27 in.) Moldboards	98.9 kg (218 lb.) 103.4 kg (228 lb.)
Overlay End Bits, Reversible (one pair)	103.4 kg (220 lb.)
For 152-mm (6 in.) Cutting Edge	19.5 kg (43 lb.)
For 203-mm (8 in.) Cutting Edge	23.1 kg (51 lb.)
Heavy-Duty Dual-Input Circle-Drive Gearbox	14 kg (31 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	1139 kg (2,510 lb.)
Shanks (3)	_
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	021 / 1 / 1 022 !! )
Front Mount with Teeth (5)	831.4 kg (1,833 lb.)
Machine Dimensions	2 10 m /10 ft E in \
A Height to Top of Cab     Height to Top of Full-Height Cab	3.18 m (10 ft. 5 in.) 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)	770G/GP
Scarifier (continued)	1/01/ /2 265//
Mid-Mount with Teeth (11)	1481 kg (3,265 lb.)
Front Lift Group (Balderson-style)	762.9 kg (1,682 lb.)
Dozer Blade, Front Mounted	5301 (33/611)
2464 mm x 955 mm (97 in. x 37.6 in.)	519 kg (1,146 lb.)
2667 mm x 955 mm (105 in. x 37.6 in.)	590 kg (1,301 lb.)
2921 mm x 955 mm (115 in. x 37.6 in.)	648 kg (1,429 lb.)
Tires	220 ( ) ( ) ( ) ( )
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.)
550/65R25 XLD70 G3/L3 Radial, General Purpose	495.3 kg (1,092 lb.)
One-Piece Rims	01 (011)
229 mm x 610 mm (9 in. x 24 in.)	0 kg (0 lb.)
330 mm x 635 mm (13 in. x 25 in.)	65.3 kg (144 lb.)
Multi-Piece Rims	170 (1 (20(11)
254 mm x 610 mm (10 in. x 24 in.)	179.6 kg (396 lb.)
356 mm x 635 mm (14 in. x 25 in.)	266.7 kg (588 lb.)
Fenders	7671 (16011)
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.)
Premium Air-Suspension, Heated Seat with Adjustable Arm- and Headrests	12.7 kg (28 lb.)
Fast-Fill Fuel System	12.6 kg (20 lb.)
Quick Service	13.6 kg (30 lb.)
	10.9 kg (24 lb.)
Sound-Absorption Package (machines equipped with Tier 3/Stage IIIA and Tier 2/Stage II engines only)	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	14.5 kg (52 lb.)
10 Halogen Lights	4.5 kg (10 lb.)
16 Halogen Lights	7.3 kg (16 lb.)
18 Halogen and/or LED Lights	8.2 kg (18 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	6.8 kg (15 lb.)
Hydraulics for Front-Mounted Equipment	8.6 kg (19 lb.)
Machine Dimensions (continued)	ng ( · > · > · )
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.)
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 26.	· · · · · · · · · · · · · · · · · · ·



## 772G/GP

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 Emissions 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 (6WD on)	157 kW (210 hp)	145 kW (194 hp)	145 kW (194 hp)
Gear 2 (6WD on)	168 kW (225 hp)	148 kW (198 hp)	148 kW (198 hp)
Gear 3 (6WD on)	179 kW (240 hp)	164 kW (220 hp)	164 kW (220 hp)
Gear 4 (6WD on)	186 kW (250 hp)	164 kW (220 hp)	164 kW (220 hp)
Gear 5 (6WD on)	190 kW (255 hp)	174 kW (234 hp)	174 kW (234 hp)
Gear 6 (6WD on)	198 kW (265 hp)	194 kW (260 hp)	194 kW (260 hp)
Gear 7 (6WD on)	205 kW (275 hp)	194 kW (260 hp)	194 kW (260 hp)
Gear 8	198 kW (265 hp)	188 kW (252 hp)	188 kW (252 hp)
Net Peak Torque	1375 Nm (1014 lbft.)	1288 Nm (950 lbft.)	1288 Nm (950 lbft.)
Net Torque Rise	55%	55%	55%
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; standard auto-reversing fan to keep coolers clean; swing-out rear fan door and pivoting or foldout coolers 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) 1-7 forward and reverse

6-Wheel-Drive Effective Gears

Precision Mode

**Effective Gears** Operating Speeds

Hydrostatic Pumps (2 each)

Wheel Motors

**Final Reduction** 

1-3 forward only

0.4-8.0 km/h (0.25-5.0 mph) 64 cm<sup>3</sup> (3.9 cu. in.)

60 cm3 (3.7 cu. in.)

38.7:1

Transmission Direct-drive John Deere PowerShift Plus™, modulated shift-on-the-qo, 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

**Maximum Travel Speeds (forward** and reverse)

With no tire slip at 2,180 rpm, 14R24 tires

Gear 1 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) Gear 2 Gear 3 7.7 km/h (4.8 mph) 10.9 km/h (6.8 mph) Gear 4 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

Oscillation (total) 32 deg. Wheel Lean Angle (each direction)

Differentials

Steering (all models include steering wheel)

Turning Radius (front steer and articulation)

Heavy-duty welded fabrication

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 (GP) option 7.21 m (23 ft. 8 in.)

22 deg.

Articulation (both right and left)

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



Powertrain (continued) 772G/GP

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

Maximum Pump Flow212 L/min. (56 gpm)Maximum System Pressure18 961 kPa (2,750 psi)Pump Displacement90 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 2083 mm (6 ft. 10 in.)

straight, right or left)

Bank Cut Angle (right or left) 90 deg.

**Productivity** 

Blade Pull (maximum weight [21 772 kg (48,000 lb.)], 0.9 coefficient of traction)

17 913 kg (39,491 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 / 200 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 (12 ft. 0 in.) Height (measured along arc, including 610 mm (24 in.)

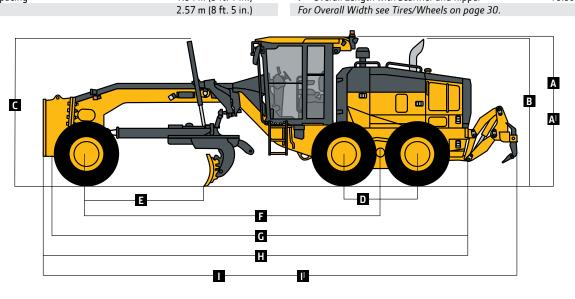
cutting edge)

Thickness 22 mm (0.88 in.)

Cutting Edge	772G/GP	
Dura-Max™ through-hardened steel edge		
Thickness	16 mm (0.62 in.)	
Width		
	152 mm (6 in.)	
Scarifiers		
_	Front	Mid-mount
Туре	Parallel-linkage V-type toolbar with manual 2-pitch posi-	Radial linkage, with NeverGrease™ pin joints; V-type too
	tions, with hydraulic float	bar 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	(	5-5 mm (*-15 m)
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.)
	25 X / G IIIIII (1 X 3 III.)	25 X / 6 IIIIII (1 X 3 III.)
Front Lift Group (Balderson-style)	i. Ci	
Parallel linkage, mechanical pins, and hydraul	lic 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) a	and FOPS (ISO 3449-2005)	
Tires/Wheels		
	14R24 on 254-mm (10 in.) Rim	17.5R25 on 356-mm (14 in.) Rim
Overall Width	2.49 m (98 in.)	2.64 m (104 in.)
Ground Clearance (front axle)	587 mm (23.1 in.)	587 mm (23.1 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.)	410.5 E (110 gai.)
· ,		
Cooling System	55.0 L (14.5 gal.)	48.5 L (12.8 gal.)
Engine Oil with Filter	27.0 L (7.1 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.)	EDA Final Tion // /ELL Stage IV	EDA Tion 2/ELI Stopp IIIA and EDA Tion 2/ELI Stopp II
Operator	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Front	4881 kg (10,760 lb.)	4890 kg (10,780 lb.)
Rear	12 501 kg (27,560 lb.)	11 857 kg (26,140 lb.)
Total	17 382 kg (38,320 lb.)	16 747 kg (36,920 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	21 772 kg (48,000 lb.)	21 772 kg (48,000 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 <sup>7</sup> / <sub>8</sub> in.) with 152-mm x 16-mm (6 in. x <sup>5</sup> / <sub>8</sub> in.) cutting edge and 16-mm ( <sup>5</sup> / <sub>8</sub> in.) hardware	0 kg (0 lb.)
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x $^{7}$ /s in.) with 203-mm x 19-mm (8 in. x $^{3}$ /4 in.) cutting edge and 16-mm ( $^{5}$ /s 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 <sup>3</sup> / <sub>4</sub> in.) cutting edge and 16-mm ( <sup>5</sup> / <sub>8</sub> 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 $^{7}$ /s in.) with 152-mm x 16-mm (6 in. x $^{5}$ /s in.) cutting edge and 16-mm ( $^{5}$ /s 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 <sup>3</sup> / <sub>4</sub> in.) cutting edge and 16-mm ( <sup>5</sup> / <sub>8</sub> in.) hardware	251.3 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	260.8 kg (575 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.)
Heavy-Duty Dual-Input Circle-Drive Gearbox	14 kg (31 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.)
Machine Dimensions	
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
Al 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.)

O C William o	772 <i>5</i> (CD
Option Weights (continued)	772G/GP
Scarifier (continued)	1/01   /2.255    )
Mid-Mount with Teeth (11)	1481 kg (3,265 lb.)
Front Lift Group (Balderson-style)	762.9 kg (1,682 lb.)
Dozer Blade, Front Mounted	5101 (7.7(611)
2464 mm x 955 mm (97 in. x 37.6 in.)	519 kg (1,146 lb.)
2667 mm x 955 mm (105 in. x 37.6 in.)	590 kg (1,301 lb.)
2921 mm x 955 mm (115 in. x 37.6 in.)	648 kg (1,429 lb.)
Tires	220 / 1 / / / / / /
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.)
550/65R25 XLD70 G3/L3 Radial, General Purpose	495.3 kg (1,092 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.)
Premium Air-Suspension, Heated Seat with Adjustable	12.7 kg (28 lb.)
Arm- and Headrests	13.61 (30.11.)
Fast-Fill Fuel System	13.6 kg (30 lb.)
Quick Service	10.9 kg (24 lb.)
Sound-Absorption Package (machines equipped with	14.1 kg (31 lb.)
Tier 3/Stage IIIA and Tier 2/Stage II engines only)	26.21 (50.11.)
Secondary Steering	26.3 kg (58 lb.)
Beacon Bracket	8.2 kg (18 lb.)
Fire Extinguisher	14.5 kg (32 lb.)
Lighting Packages	/ E
10 Halogen Lights	4.5 kg (10 lb.)
16 Halogen Lights	7.3 kg (16 lb.)
18 Halogen and/or LED Lights	8.2 kg (18 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	6.8 kg (15 lb.)
Hydraulics for Front-Mounted Equipment	8.6 kg (19 lb.)
Machine Dimensions (continued)	C 1C (20 % 2 ; )
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.)
Overall Length with Push Block and Ripper     Overall Length with Scarifier and Ripper	9.99 m (32 ft. 9 in.)
I Overall Length with Scarifier and Ripper For Overall Width see Tires/Wheels on page 30.	10.59 m (34 ft. 9 in.)





Engine	870G/GP		
Manufacturer and Model	John Deere PowerTech™ PSS 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech™ 9.0L
Non-Road Emissions 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	160 kW (215 hp)	134 kW (180 hp)	134 kW (180 hp)
Gear 2	172 kW (230 hp)	135 kW (182 hp)	135 kW (182 hp)
Gear 3	183 kW (245 hp)	152 kW (204 hp)	152 kW (204 hp)
Gear 4	190 kW (255 hp)	163 kW (219 hp)	163 kW (219 hp)
Gear 5	194 kW (260 hp)	169 kW (227 hp)	169 kW (227 hp)
Gear 6	201 kW (270 hp)	184 kW (247 hp)	184 kW (247 hp)
Gear 7	205 kW (275 hp)	191 kW (257 hp)	191 kW (257 hp)
Gear 8	209 kW (280 hp)	191 kW (257 hp)	191 kW (257 hp)
Net Peak Torque	1428 Nm (1053 lbft.)	1287 Nm (949 lbft.)	1287 Nm (949 lbft.)
Net Torque Rise	62%	60%	60%
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled
Lubrication	Full-flow spin-on filter and integral	Full-flow spin-on filter and integral	Full-flow spin-on filter and integral
	cooler	cooler	cooler
Air Cleaner with Restriction Indicator	Dual element, dry	Dual element, dry	Dual element, dry
Cooling	budi cicinent, dry	Budi cicinent, ary	Budi cicinent, dry
	variable-speed fan drive to optimize fuel co	onsumption: standard auto-reversing far	to keen coolers clean: swing-out rear fa
	r easy cleaning of all cooling components	onsumption, standard dato reversing far	to keep coolers clean, swing out real rai
Engine Coolant, Extended Life, Rating			
Powertrain	3, deg. e ( 3 i deg. i )		
Transmission	Direct-drive John Deere PowerShift Plus™	' modulated shift-on-the-go Event-Base	d Shifting (EBS), inching pedal; independe
1141131111331011	transmission reservoir with separate filtr		
Gears	transmission reservon with separate inti	ation and cooling system with 121-121111	ii. (52 gpiii) gear puilip
Ocai 3			
Forward	ρ.		
Forward	8		
Reverse	8	ras	
Reverse Maximum Travel Speeds (forward		es	
Reverse  Maximum Travel Speeds (forward and reverse)	8 With no tire slip at 2,180 rpm, 14R24 tir	es	
Reverse Maximum Travel Speeds (forward and reverse) Gear 1	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph)	es	
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1  Gear 2	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph)	es	
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1  Gear 2  Gear 3	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph)	es	
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1  Gear 2  Gear 3  Gear 4	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph)	res	
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1  Gear 2  Gear 3  Gear 4  Gear 5	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) 16.7 km/h (10.4 mph)	res	
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1  Gear 2  Gear 3  Gear 4  Gear 5  Gear 6	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) 16.7 km/h (10.4 mph) 23.3 km/h (14.5 mph)	es	
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1  Gear 2  Gear 3  Gear 4  Gear 5  Gear 6  Gear 7	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) 16.7 km/h (10.4 mph) 23.3 km/h (14.5 mph) 32.2 km/h (20.0 mph)	res	
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1  Gear 2  Gear 3  Gear 4  Gear 5  Gear 6  Gear 7  Gear 8	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) 16.7 km/h (10.4 mph) 23.3 km/h (14.5 mph) 32.2 km/h (20.0 mph) 45.0 km/h (28.0 mph)	res	
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1  Gear 2  Gear 3  Gear 4  Gear 5  Gear 6  Gear 7  Gear 8  Front Axle	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) 16.7 km/h (10.4 mph) 23.3 km/h (14.5 mph) 32.2 km/h (20.0 mph) 45.0 km/h (28.0 mph) Heavy-duty welded fabrication	res	
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1  Gear 2  Gear 3  Gear 4  Gear 5  Gear 6  Gear 7  Gear 8  Front Axle  Oscillation (total)	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) 16.7 km/h (10.4 mph) 23.3 km/h (14.5 mph) 32.2 km/h (20.0 mph) 45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg.	res	
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1  Gear 2  Gear 3  Gear 4  Gear 5  Gear 6  Gear 7  Gear 8  Front Axle  Oscillation (total)  Wheel Lean Angle (each direction)	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) 16.7 km/h (10.4 mph) 23.3 km/h (14.5 mph) 32.2 km/h (20.0 mph) 45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg.		
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1  Gear 2  Gear 3  Gear 4  Gear 5  Gear 6  Gear 7  Gear 8  Front Axle  Oscillation (total)  Wheel Lean Angle (each direction)  Differentials	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) 16.7 km/h (10.4 mph) 23.3 km/h (14.5 mph) 32.2 km/h (20.0 mph) 45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, cluto	th type can be applied on-the-go; selecta	
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1  Gear 2  Gear 3  Gear 4  Gear 5  Gear 6  Gear 7  Gear 8  Front Axle  Oscillation (total)  Wheel Lean Angle (each direction)  Differentials  Steering (all models include steering	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) 16.7 km/h (10.4 mph) 23.3 km/h (14.5 mph) 32.2 km/h (20.0 mph) 45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutch	th type can be applied on-the-go; selecta	teering reduces side drift, positions tander
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1  Gear 2  Gear 3  Gear 4  Gear 5  Gear 6  Gear 7  Gear 8  Front Axle  Oscillation (total)  Wheel Lean Angle (each direction)  Differentials  Steering (all models include steering wheel)	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) 16.7 km/h (10.4 mph) 23.3 km/h (14.5 mph) 32.2 km/h (20.0 mph) 45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutch All-hydraulic power-frame articulation for on firm ground, and increases side-slopes	th type can be applied on-the-go; selecta	able manual or automatic differential lock teering reduces side drift, positions tander uded in Grade Pro (GP) option
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1  Gear 2  Gear 3  Gear 4  Gear 5  Gear 6  Gear 7  Gear 8  Front Axle  Oscillation (total)  Wheel Lean Angle (each direction)  Differentials  Steering (all models include steering wheel)  Turning Radius (front steer and	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) 16.7 km/h (10.4 mph) 23.3 km/h (14.5 mph) 32.2 km/h (20.0 mph) 45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutch	th type can be applied on-the-go; selecta	teering reduces side drift, positions tander
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation)	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) 16.7 km/h (10.4 mph) 23.3 km/h (14.5 mph) 32.2 km/h (20.0 mph) 45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, cluto All-hydraulic power-frame articulation for on firm ground, and increases side-slope 7.21 m (23 ft. 8 in.)	th type can be applied on-the-go; selecta	teering reduces side drift, positions tander
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1  Gear 2  Gear 3  Gear 4  Gear 5  Gear 6  Gear 7  Gear 8  Front Axle  Oscillation (total)  Wheel Lean Angle (each direction)  Differentials  Steering (all models include steering wheel)  Turning Radius (front steer and articulation)  Articulation (both right and left)	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) 16.7 km/h (10.4 mph) 23.3 km/h (14.5 mph) 32.2 km/h (20.0 mph) 45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, cluto All-hydraulic power-frame articulation for on firm ground, and increases side-slope 7.21 m (23 ft. 8 in.)	th type can be applied on-the-go; selectar maneuverability and productivity; crab si stability; return-to-straight control incl	teering reduces side drift, positions tander
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle  Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left) Final Drives	8 With no tire slip at 2,180 rpm, 14R24 tire 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) 16.7 km/h (10.4 mph) 23.3 km/h (14.5 mph) 32.2 km/h (20.0 mph) 45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutor on firm ground, and increases side-slope 7.21 m (23 ft. 8 in.) 22 deg. Inboard-mounted planetary sealed in continuous discounted for the same statement of the same side side.	th type can be applied on-the-go; selectar maneuverability and productivity; crab si stability; return-to-straight control incl oled, filtered oil	teering reduces side drift, positions tander uded in Grade Pro (GP) option
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1  Gear 2  Gear 3  Gear 4  Gear 5  Gear 6  Gear 7  Gear 8  Front Axle  Oscillation (total)  Wheel Lean Angle (each direction)  Differentials  Steering (all models include steering wheel)  Turning Radius (front steer and articulation)  Articulation (both right and left)	8 With no tire slip at 2,180 rpm, 14R24 tire 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) 16.7 km/h (10.4 mph) 23.3 km/h (14.5 mph) 32.2 km/h (20.0 mph) 45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutor on firm ground, and increases side-slope 7.21 m (23 ft. 8 in.) 22 deg. Inboard-mounted planetary sealed in confoot-controlled, hydraulically operated, in the confoot-controlled hydraulically operated hyd	th type can be applied on-the-go; selectar maneuverability and productivity; crab si stability; return-to-straight control incl oled, filtered oil multiple wet-disc brakes sealed in pressu	teering reduces side drift, positions tander
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1  Gear 2  Gear 3  Gear 4  Gear 5  Gear 6  Gear 7  Gear 8  Front Axle  Oscillation (total)  Wheel Lean Angle (each direction)  Differentials  Steering (all models include steering wheel)  Turning Radius (front steer and articulation)  Articulation (both right and left)  Final Drives  Brakes	8 With no tire slip at 2,180 rpm, 14R24 tir 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) 16.7 km/h (10.4 mph) 23.3 km/h (14.5 mph) 32.2 km/h (20.0 mph) 45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutch All-hydraulic power-frame articulation for on firm ground, and increases side-slope 7.21 m (23 ft. 8 in.) 22 deg. Inboard-mounted planetary sealed in corfoot-controlled, hydraulically operated, systems effective on all 4 tandem wheels	ch type can be applied on-the-go; selecta r maneuverability and productivity; crab si e stability; return-to-straight control incl oled, filtered oil multiple wet-disc brakes sealed in pressu	teering reduces side drift, positions tande uded in Grade Pro (GP) option rized, cooled, filtered oil; both independe
Reverse  Maximum Travel Speeds (forward and reverse)  Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle  Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left) Final Drives	8 With no tire slip at 2,180 rpm, 14R24 tire 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) 16.7 km/h (10.4 mph) 23.3 km/h (14.5 mph) 32.2 km/h (20.0 mph) 45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutor on firm ground, and increases side-slope 7.21 m (23 ft. 8 in.) 22 deg. Inboard-mounted planetary sealed in confoot-controlled, hydraulically operated, in the confoot-controlled hydraulically operated hyd	th type can be applied on-the-go; selectar maneuverability and productivity; crab si e stability; return-to-straight control incl oled, filtered oil multiple wet-disc brakes sealed in pressu s m pivot, self-adjusting, sealed in cooled	teering reduces side drift, positions tande uded in Grade Pro (GP) option rized, cooled, filtered oil; both independe and filtered oil, multi-disc (ISO 3450)



Hydraulics 870G/GP

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

Maximum Pump Flow218 L/min. (57.5 gpm)Maximum System Pressure18 961 kPa (2,750 psi)Pump Displacement90 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)

Bank Cut Angle (right or left)

90 deg.

**Productivity** 

Blade Pull (maximum weight [22 054 kg 13 299 kg

(48,620 lb.)], 0.9 coefficient of traction)

13 299 kg (29,320 lb.)

2329 mm (7 ft. 8 in.)

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 / 200 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 cm<sup>3</sup> (108 cu. in.) Average Vertical Section at Saddle 2635 cm<sup>3</sup> (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 (14 ft. 0 in.) Height (measured along arc, including 686 mm (27 in.)

cutting edge)

Thickness 25 mm (1 in.)

**Cutting Edge** 

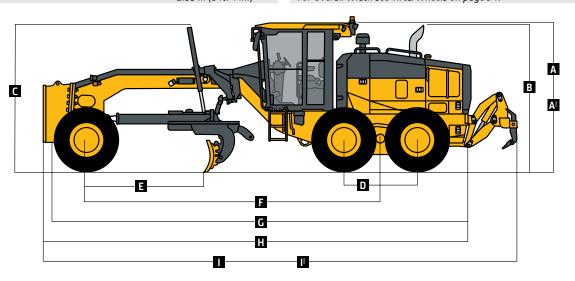
Dura-Max™ through-hardened steel edge

Thickness 19 mm (0.75 in.) Width 203 mm (8 in.)

Scarifiers	870G/GP	
	Front	Mid-mount
Туре	Parallel-linkage 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	555 mm (1512 mm)	323 (1216)
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)	23 × 7 6 mm (1 × 3 m.)	25 x 7 6 mm (1 x 5 m.)
Parallel linkage, mechanical pins, and hydraul	ic float	
Lift	iciloat	
-	106/. mm (72 /. in )	
Above Ground (top of tube)	1864 mm (73.4 in.)	
Range	988 mm (38.9 in.)	
Rear Ripper/Scarifier	had a 12 Mari and Satura at 2000 f	
Parallel linkage, with NeverGrease pin joints,		c .c.
Maria S.C.	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) a	nd FOPS (ISO 3449-2005)	
Tires/Wheels		
	14R24 on 254-mm (10 in.) Rim	17.5R25 on 356-mm (14 in.) Rim
Overall Width	2.49 m (98 in.)	2.64 m (104 in.)
Ground Clearance (front axle)	587 mm (23.1 in.)	587 mm (23.1 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	27.0 L (7.1 gal.)	27.0 L (7.1 gal.)
Transmission Fluid	23.5 L (6.2 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	00.5 E (10 gai.)	55.0 E (14 gai.)
With Full Fuel Tank, 4.27-m x 686-mm x		
25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. $x^{3}/_{4}$ in.) Cutting		
Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.)	FDA Final Time (/FU Chang II/	EDA Tian 2/ELI Chang IIIA and EDA Tian 2/ELI Cian III
Operator	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Front	4531 kg (9,990 lb.)	4540 kg (10,010 lb.)
Rear	12 487 kg (27,530 lb.)	11 843 kg (26,110 lb.)
Total	17 019 kg (37,520 lb.)	16 384 kg (36,120 lb.)
Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment		
Front	5788 kg (12,760 lb.)	5869 kg (12,940 lb.)
		<b>3</b> , , , , , , , , , , , , , , , , , , ,
Rear	14 5 1 5 KG 132.UUU 1D.1	1.3 DO 3 KU 1.3U, 1 / 3 IU, 1
Rear Total	14 515 kg (32,000 lb.) 20 303 kg (44,760 lb.)	13 689 kg (30,179 lb.) 19 558 kg (43,119 lb.)

Option Weights	870G/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 $^{3}$ / <sub>4</sub> in.) cutting edge and 16-mm ( $^{5}$ / <sub>8</sub> in.) hardware	– 126 kg (– 278 lb.)
3.96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.) with 203-mm x 19-mm (8 in. x $^{3}$ / <sub>4</sub> in.) cutting edge and 16-mm ( $^{5}$ / <sub>8</sub> in.) hardware	– 72 kg (– 159 lb.)
4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203-mm x 19-mm (8 in. x $^{3}$ / <sub>4</sub> in.) cutting edge and 16-mm ( $^{5}$ / <sub>8</sub> in.) hardware	0 kg (0 lb.)
4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203-mm x 19-mm (8 in. x $^{3}$ / $_{4}$ in.) cutting edge and 19-mm ( $^{3}$ / $_{4}$ in.) hardware	9.5 kg (21 lb.)
$4.88 \text{ m x} 686 \text{ mm x} 25 \text{ mm (16 ft. x} 27 \text{ in. x} 1 \text{ in.)}$ with 203-mm x 19-mm (8 in. x $^3/_4$ in.) cutting edge and 19-mm ( $^3/_4$ in.) hardware	137 kg (302 lb.)
Extensions, 610 mm (2 ft.) (right or left)	
For Use with 686-mm (27 in.) Moldboards	120.2 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.)
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 <sup>I</sup> Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)
<b>B</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	2.53 m (8 ft. 4 in.)

Option Weights (continued)	870G/GP
Dozer Blade, Front Mounted	
2667 mm x 955 mm (105 in. x 37.6 in.)	590 kg (1,301 lb.)
2921 mm x 955 mm (115 in. x 37.6 in.)	648 kg (1,429 lb.)
Tires	_
14.00-24, 12 PR G2	- 272.2 kg (- 600 lb
17.5-25, 12 PR G2/L2	– 157.9 kg (– 348 lb
14.00-R24, Radial, G2/L2 General Purpose	– 51.7 kg (– 114 lb.)
14.00-R24, Radial, G2/L2 Snow	– 10.9 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	89.8 kg (198 lb.)
550/65R25 XLD70 G3/L3 Radial, General Purpose	443.6 kg (978 lb.)
Multi-Piece Rims	
254 mm x 610 mm (10 in. x 24 in.)	– 87.1 kg (– 192 lb.)
356 mm x 635 mm (14 in. x 25 in.)	0 kg (0 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.)
Premium Air-Suspension, Heated Seat with Adjustable Arm- and Headrests	12.7 kg (28 lb.)
Fast-Fill Fuel System	13.6 kg (30 lb.)
Quick Service	10.9 kg (24 lb.)
Sound-Absorption Package (machines equipped with Tier 3/Stage IIIA and Tier 2/Stage II engines only)	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	<u>-</u>
10 Halogen Lights	4.5 kg (10 lb.)
16 Halogen Lights	7.3 kg (16 lb.)
18 Halogen and/or LED Lights	8.2 kg (18 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	6.8 kg (15 lb.)
Hydraulics for Front-Mounted Equipment	8.6 kg (19 lb.)
Machine Dimensions (continued)	
F Wheelbase	6.16 m (20 ft. 3 in.)
<b>G</b> Overall Length	8.89 m (29 ft. 2 in.)
H Overall Length with Scarifier	9.69 m (31 ft. 9 in.)
Overall Length with Push Block and Ripper	9.99 m (32 ft. 9 in.)
I <sup>I</sup> Overall Length with Scarifier and Ripper	10.59 m (34 ft. 9 in.
For Overall Width see Tires/Wheels on page 34.	





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 Emissions 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 (6WD on)	175 kW (235 hp)	160 kW (214 hp)	160 kW (214 hp)
Gear 2 (6WD on)	186 kW (250 hp)	163 kW (219 hp)	163 kW (219 hp)
Gear 3 (6WD on)	198 kW (265 hp)	180 kW (241 hp)	180 kW (241 hp)
Gear 4 (6WD on)	205 kW (275 hp)	180 kW (241 hp)	180 kW (241 hp)
Gear 5 (6WD on)	209 kW (280 hp)	187 kW (250 hp)	187 kW (250 hp)
Gear 6 (6WD on)	216 kW (290 hp)	205 kW (275 hp)	205 kW (275 hp)
Gear 7 (6WD on)	224 kW (300 hp)	205 kW (275 hp)	205 kW (275 hp)
Gear 8	216 kW (290 hp)	200 kW (268 hp)	200 kW (268 hp)
Net Peak Torque	1459 Nm (1,076 lbft.)	1353 Nm (998 lbft.)	1353 Nm (998 lbft.)
Net Torque Rise	51%	53%	53%
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	· ·	•	·

door and pivoting or foldout coolers 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) 1-7 forward and reverse

6-Wheel-Drive Effective Gears

Precision Mode

**Effective Gears** 

0.4-8.0 km/h (0.25-5.0 mph) Operating Speeds

Hydrostatic Pumps (2 each) 64 cm<sup>3</sup> (3.9 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-qo, Event-Based Shifting (EBS), inching pedal; independent transmission reservoir with separate filtration and cooling system with 121-L/min. (32 gpm) gear pump

Gears

8 Forward 8 Reverse

**Maximum Travel Speeds (forward** and reverse)

With no tire slip at 2,180 rpm, 14R24 tires

Gear 1 3.9 km/h (2.4 mph) 5.6 km/h (3.5 mph) Gear 2 Gear 3 7.9 km/h (4.9 mph) 10.9 km/h (6.8 mph) Gear 4 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) Wheel Lean Angle (each direction)

Differentials

Steering (all models include steering wheel)

Turning Radius (front steer and articulation)

**Final Drives** 

Articulation (both right and left)

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 (GP) option

7.21 m (23 ft. 8 in.)

1-3 forward only

22 deg.

32 deg.

Inboard-mounted planetary sealed in cooled, filtered oil



872G/GP Powertrain (continued)

Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both independent **Brakes** 

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)

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

**Hydraulics** 

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 cm<sup>3</sup> (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 deq.

Shoulder Reach Outside Wheels (frame 2329 mm (7 ft. 8 in.)

straight, right or left)

Bank Cut Angle (right or left) 90 deg.

**Productivity** 

Blade Pull (maximum weight [22 054 kg

(48,620 lb.)], 0.9 coefficient of traction)

18 082 kg (39,864 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 100 / 130 / 200 amp Alternator Rating

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

Welded box construction Type 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

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

Circle Diameter 1524 mm (60 in.) Rotation 360 deg.

Hydraulic motor and worm gear with positive lock Drive

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

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

4.27 m (14 ft. 0 in.) Base Length Height (measured along arc, including 686 mm (27 in.)

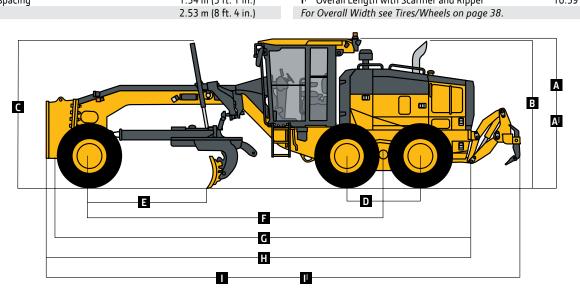
cutting edge)

Thickness 25 mm (1.00 in.)

Dura-Max* Through-hardened steel edge   Thickness   19 mm   (0.75   n.)	Cutting Edge	872G/GP	
Thickness   19 mm (0.75 in.)			
Stansifiers		10 mm (0.75 in )	
Foot		, ,	
Foot		205 11111 (0 111.)	
Type	Scariners	Frank	M:
Width of Cut	<del>-</del>		
Width of Cut	lype		
Number of Shanks/Teeth   5   maximum capacity 9   11			
Lift Above Ground			· ,
Maximum Penetration   335 mm (13.2 in.)   325 mm (12.8 in.)   Spacing   146 mm (5.75 in.)   117 mm (4.6 in.)   Spacing   126 mm (12.8 in.)   25 x 76 mm (1 x 3 in.)   Spacing   126 mm (5.75 in.)   117 mm (4.6 in.)   Spacing   126 mm (12.8 in.)   Spacing   126 mm (12.8 in.)   Spacing   126 mm (12.8 in.)   Spacing			
Shank	Lift Above Ground	· · · ·	
Spacing   146 mm (5.75 in.)   25 x 76 mm (1 x 3 in.)   25 x 76 mm (1 x 3 in.)	Maximum Penetration	335 mm (13.2 in.)	325 mm (12.8 in.)
Size   25 x 76 mm (1 x 3 in.)   25 x 76 mm (	Shank		
Size   25 x 76 mm (1 x 3 in.)   25 x 76 mm (	Spacing	146 mm (5.75 in.)	117 mm (4.6 in.)
Front_Lift Group (Balderson-style)			
Parallel linkage, mechanical pins, and hydraulic float. Life			20 11 0 11111 (1 110 1111)
Lift Above Ground (top of tube) Range 988 mm (33.9 in.)  Rear Ripper/Scarifier  Parallel linkage, with NeverGrease pin joints, hydraulic float, and integrated hitch Ripper Width of Cut 2.71 m (7ft. 3 in.) Number of Shanks/Teeth 3 [maximum capacity 5] None standard (maximum capacity 9) Lift Above Ground 602 mm (23.7 in.) Maximum Penetration Maxi		ic float	
Above Cround (top of tube)   1864 mm (73.4 in.)   28 mm (38.9 in.)		ic noat	
Range (Range Ranger Ran		10 <i>C ( (72 /. i</i> )	
Rear Ripper/Scarifier	•		
Parallel   Linkage, with NeverGrease pin joints, hydraulic float, and integrated hitch   Ripper   Scarifier		טאע mm אטע (.חו צ.אצ.)	
Might of Cut	•		
With of Cut	Parallel linkage, with NeverGrease pin joints,	hydraulic float, and integrated hitch	
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 (2.4 x 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  Overall Width 2.49 m (98 in.) 2.64 m (104 in.)  Oround Clearance (front axle) 587 mm (23.1 in.) 587 mm (23.1 in.)  Serviceability  Refill Capacities FPA Finol Tire 4/EU Stage IV Finol	Width of Cut	2.21 m (7 ft. 3 in.)	2.18 m (7 ft. 2 in.)
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 FOPS (ISO 3471-2008) and FOPS (ISO 3449-2005) Tires/Wheels  Overall Width 2.49 m (98 in.) 7.5 R25 on 356-mm (14 in.) Rim Overall Width 2.49 m (98 in.) 587 mm (23.1 in.)  Foround Clearance (front axle) 587 mm (23.1 in.) 587 mm (23.1 in.)  Serviceability  Refill Capacities PPA Finol Tier 4/EU Stage IV FPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage III Fuel Tank 416.5 L (110 gal.) 416.5 L (110 gal.) Fuel Shavast Fluid (DEF) Tank 22.5 L (62 gal.) — Cooling System 55.0 L (14.5 gal.) 48.5 L (12.8 gal.) Fignien Gil with Filter 2.7 to (1.7 gal.) 27.0 L (7.1 gal.) Transmission Fluid 23.5 L (6.2 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.) 5.7 L (1.5 gal.) 49.4 L (19.5 gal.) Trandem Housings (each) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 5.7 L (1.5 gal.) Tydraulic Reservoir 60.5 L (16 gal.) 5.7 L (1.5 gal	Number of Shanks/Teeth	3 (maximum capacity 5)	None standard (maximum capacity 9)
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           Intres/Wheels           Intres/ EVE May 10 in.]           Serviceability           Englist Office of Intres/ EVE May 10 in.]           Explain Intres/ EVE Ustage IV         EPPA Tire 3/EU Stage IIIA and EPA Tire 2/EU Stage III           Final Tire 4/EU Stage IV         EPPA Tire 3/EU Stage IIIA and EPA Tire 2/EU Stage III           Circle Gearbox         5.7 L [1.5 gal.]         5.7 L [1.5 gal.]         5.7 L [1.5 gal.]         5.7 L [1.5 gal.]         5.7 L	Lift Above Ground		810 mm (31.9 in.)
Shank Size	Maximum Penetration	, ,	, ,
Departor Station   Low-profile cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005)   Tirres/Wheels   14R24 on 254-mm (10 in.) Rim   17.5R25 on 356-mm (14 in.) Rim   Overall Width   2.49 m (98 in.)   2.64 m (104 in.)   S87 mm (23.1 in.)   S87		` ,	
Low-profile cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005)   Tires/Wheels		01.5 x 155 mm (2.12 x 5.25 m.)	25 x 7 6 mm (1 x 5 m.)
Tires/Wheels	•	and EODS (ISO 3/4/0, 200E)	
14R24 on 254-mm (10 in.) Rim   17.5R25 on 356-mm (14 in.) Rim   2.49 m (98 in.)   2.64 m (104 in.)   2.64 m (104 in.)   387 mm (23.1 in.)   587		IIIu FOF3 (130 3443-2003)	
Overall Width         2.49 m (98 in.)         2.64 m (104 in.)           Ground Clearance (front axle)         587 mm (23.1 in.)         587 mm (23.1 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         27.0 L (7.1 gal.)         27.0 L (7.1 gal.)           Transmission Fluid         23.5 L (6.2 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           Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.)         FOR Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II           Front         50.94 kg (11,230 lb.)         5103 kg (11,250 lb.)           Total         17 885 kg (39,650 lb.)         17 345 kg (26,990 lb.	TIFES/ Wheels	1/02/ 25/ /10 :- 10:	17 FD2F 2FC (1/ :- \ D:
Ground Clearance (front axle)         587 mm (23.1 in.)         587 mm (23.1 in.)           Serviceability         Serviceability           Refill Capacities         EPA Final Tier 4/EU Stage IV         EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage III           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         27.0 L (7.1 gal.)         27.0 L (7.1 gal.)           Transmission Fluid         23.5 L (6.2 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.)         5.7 L (1.5 gal.)         5.7 L (1.5 gal.)           Operating Weights         With Fill Fuel Tank, 4.27-m x 686-mm x         25-mm (14 ft.x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x 3/4 in.) Cutting Edges, 17.5 R25 L 2 Tires, and 79-kg (175 lb.)         EPA Final Tier 4/EU Stage IV         EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II           Front         5094 kg (11,230 lb.)         5103 kg (11,250 lb.)         <			• •
Serviceability   Refill Capacities			. ,
Refill Capacities         EPA Finol Tire 4/EU Stage IV         EPA Tirer 3/EU Stage IIIA and EPA Tirer 2/EU Stage II           Fuel Tank         416.5 L (110 gal.)         416.5 L (110 gal.)           Diesel Exhaust Fluid (DEF) Tank         25.5 L (6 gal.)         —           Cooling System         55.0 L (14.5 gal.)         48.5 L (12.8 gal.)           Engine Oil with Fitler         27.0 L (7.1 gal.)         27.0 L (7.1 gal.)           Transmission Fluid         23.5 L (6.2 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, 4.27-m x 686-mmx         25-mm (14 ft.x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x 3/x in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.)         EPA Finol Tirer 4/EU Stage IV         EPA Tirer 3/EU Stage IIIA and EPA Tirer 2/EU Stage II           Front         5094 kg (11,230 lb.)         5103 kg (11,250 lb.)         12 242 kg (26,990 lb.)           Total         17 985 kg (39,650 lb.)         17 345 kg (38,240 lb.)         17 345 kg (38,240 lb.)           Block, Re	. ,	587 mm (23.1 in.)	587 mm (23.1 in.)
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.) (27.0 L (7.1 gal.) (27.0 L (7.0 gal.) (27.0 L (7.0 gal.) (27.0 L (7.0 gal.) (27.0 gal.			
Diesel Exhaust Fluid (DEF) Tank   22.5 L (6 gal.)	Refill Capacities	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Cooling System       55.0 L (14.5 gal.)       48.5 L (12.8 gal.)         Engine Oil with Filter       27.0 L (7.1 gal.)       27.0 L (7.1 gal.)         Transmission Fluid       23.5 L (6.2 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, 4.27-m x 686-mm x         25-mm (14 ft.x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x ³/x in.) Cutting Edges, 17.5 R25 L2 Tires, and 79-kg (175 lb.)         Operator       EPA Final Tier 4/EU Stage IV       EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II         Front       5094 kg (11,230 lb.)       5103 kg (11,250 lb.)         Rear       12 891 kg (28,420 lb.)       12 242 kg (26,990 lb.)         Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment       6323 kg (13,940 lb.)       6407 kg (14,124 lb.)         Front       6323 kg (33,940 lb.)       14 864 kg (32,770 lb.)       14 036 kg (30,944 lb.)         Total       21 187 kg (46,710 lb.)       20 443 kg (45,068 lb.)	Fuel Tank	416.5 L (110 gal.)	416.5 L (110 gal.)
Cooling System       55.0 L (14.5 gal.)       48.5 L (12.8 gal.)         Engine Oil with Filter       27.0 L (7.1 gal.)       27.0 L (7.1 gal.)         Transmission Fluid       23.5 L (6.2 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, 4.27-m x 686-mm x         25-mm (14 ft.x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x ³/x in.) Cutting Edges, 17.5 R25 L2 Tires, and 79-kg (175 lb.)         Operator       EPA Final Tier 4/EU Stage IV       EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II         Front       5094 kg (11,230 lb.)       5103 kg (11,250 lb.)         Rear       12 891 kg (28,420 lb.)       12 242 kg (26,990 lb.)         Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment       6323 kg (13,940 lb.)       6407 kg (14,124 lb.)         Front       6323 kg (33,940 lb.)       14 864 kg (32,770 lb.)       14 036 kg (30,944 lb.)         Rear       14 864 kg (32,770 lb.)       20 443 kg (45,068 lb.)	Diesel Exhaust Fluid (DEF) Tank	22.5 L (6 gal.)	_
Engine Oil with Filter       27.0 L (7.1 gal.)       27.0 L (7.1 gal.)         Transmission Fluid       23.5 L (6.2 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, 4.27-m x 686-mm x         25-mm (14 ft x. 27 in. x 1.0 in.) Moldboard       x         with 203-mm x 19-mm (8 in. x <sup>3</sup> /4 in.) Cutting       EPA Final Tier 4/EU Stage IV       EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II         Front       5094 kg (11,230 lb.)       5103 kg (11,250 lb.)         Rear       12 891 kg (28,420 lb.)       12 242 kg (26,990 lb.)         Total       17 985 kg (39,650 lb.)       17 345 kg (38,240 lb.)         Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment       6323 kg (13,940 lb.)       6407 kg (14,124 lb.)         Front       6323 kg (33,940 lb.)       14 036 kg (30,944 lb.)         Rear       14 864 kg (32,770 lb.)       14 036 kg (30,944 lb.)         Total       21 187 kg (46,710 lb.)       20 443 kg (45,068 lb.) <td>Coolina System</td> <td></td> <td>48.5 L (12.8 gal.)</td>	Coolina System		48.5 L (12.8 gal.)
Transmission Fluid       23.5 L (6.2 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, 4.27-m x 686-mm x       25-mm (14 ft.x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x ³/4 in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.)       EPA Final Tier 4/EU Stage IV       EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II         Front       5094 kg (11,230 lb.)       5103 kg (11,250 lb.)       12 242 kg (26,990 lb.)         Total       12 891 kg (28,420 lb.)       12 242 kg (26,990 lb.)       17 345 kg (38,240 lb.)         Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment       6323 kg (13,940 lb.)       6407 kg (14,124 lb.)         Front       6323 kg (39,940 lb.)       14 864 kg (32,770 lb.)       14 036 kg (30,944 lb.)         Total       14 864 kg (32,770 lb.)       14 036 kg (30,944 lb.)			, ,
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, 4.27-m x 686-mm x         25-mm (14 ft.x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x ³/4 in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.)       EPA Final Tier 4/EU Stage IV       EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II         Front       5094 kg (11,230 lb.)       5103 kg (11,250 lb.)         Rear       12 891 kg (28,420 lb.)       12 242 kg (26,990 lb.)         Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment       17 345 kg (38,240 lb.)         Front       6323 kg (13,940 lb.)       6407 kg (14,124 lb.)         Rear       14 864 kg (32,770 lb.)       14 036 kg (30,944 lb.)         Total       21 187 kg (46,710 lb.)       20 443 kg (45,068 lb.)			· • · · · · · · · · · · · · · · · · · ·
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, 4.27-m x 686-mm x       25-mm (14 ft.x 27 in. x 1.0 in.) Moldboard         with 203-mm x 19-mm (8 in. x ³/4 in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.)       EPA Final Tier 4/EU Stage IV       EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II         Front       5094 kg (11,230 lb.)       5103 kg (11,250 lb.)         Rear       12 891 kg (28,420 lb.)       12 242 kg (26,990 lb.)         Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment       17 985 kg (39,9650 lb.)       17 345 kg (38,240 lb.)         Front       6323 kg (13,940 lb.)       6407 kg (14,124 lb.)         Rear       14 864 kg (32,770 lb.)       14 036 kg (30,944 lb.)         Total       11 87 kg (46,710 lb.)       20 443 kg (45,068 lb.)			
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, 4.27-m x 686-mm x         25-mm (14 ft.x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x ³/4 in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.)         Operator       EPA Final Tier 4/EU Stage IV       EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II         Front       5094 kg (11,230 lb.)       5103 kg (11,250 lb.)         Rear       12 891 kg (28,420 lb.)       12 242 kg (26,990 lb.)         Total       17 985 kg (39,650 lb.)       17 345 kg (38,240 lb.)         Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment         Front       6323 kg (13,940 lb.)       6407 kg (14,124 lb.)         Rear       14 864 kg (32,770 lb.)       14 036 kg (30,944 lb.)         Total       21 187 kg (46,710 lb.)       20 443 kg (45,068 lb.)		· •	
Hydraulic Reservoir       60.5 L (16 gal.)       53.0 L (14 gal.)         Operating Weights         With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft.x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x 3/4 in.) Lutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.)       EPA Final Tier 4/EU Stage IV       EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II         Front       5094 kg (11,230 lb.)       5103 kg (11,250 lb.)         Rear       12 891 kg (28,420 lb.)       12 242 kg (26,990 lb.)         Total       17 985 kg (39,650 lb.)       17 345 kg (38,240 lb.)         Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment       6407 kg (14,124 lb.)         Front       6323 kg (13,940 lb.)       6407 kg (14,124 lb.)         Rear       14 864 kg (32,770 lb.)       14 036 kg (30,944 lb.)         Total       21 187 kg (46,710 lb.)       20 443 kg (45,068 lb.)			
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. x³/4 in.) Cutting         Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.)         Operator       EPA Final Tier 4/EU Stage IV       EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II         Front       5094 kg (11,230 lb.)       5103 kg (11,250 lb.)         Rear       12 891 kg (28,420 lb.)       12 242 kg (26,990 lb.)         Total       17 985 kg (39,650 lb.)       17 345 kg (38,240 lb.)         Typical Operating Weight with Front Push       Block, Rear Ripper/Scarifier, and Other         Equipment       Front       6323 kg (13,940 lb.)       6407 kg (14,124 lb.)         Rear       14 864 kg (32,770 lb.)       14 036 kg (30,944 lb.)         Total       21 187 kg (46,710 lb.)       20 443 kg (45,068 lb.)	* *. * * * * * *		
With Full Fuel Tank, 4.27-m x 686-mm x         25-mm (14 ft.x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x ³/4 in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.)         Operator       EPA Final Tier 4/EU Stage IV       EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II         Front       5094 kg (11,230 lb.)       5103 kg (11,250 lb.)         Rear       12 891 kg (28,420 lb.)       12 242 kg (26,990 lb.)         Total       17 985 kg (39,650 lb.)       17 345 kg (38,240 lb.)         Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment       6323 kg (13,940 lb.)       6407 kg (14,124 lb.)         Front       6323 kg (32,770 lb.)       14 036 kg (30,944 lb.)         Total       21 187 kg (46,710 lb.)       20 443 kg (45,068 lb.)	<b>)</b>	60.5 L (16 gal.)	53.0 L (14 gal.)
25-mm (14 ft.x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x ³/₄ in.) Cutting Edges, 17.5R25 L2 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       5094 kg (11,230 lb.)       5103 kg (11,250 lb.)         Rear       12 891 kg (28,420 lb.)       12 242 kg (26,990 lb.)         Total       17 985 kg (39,650 lb.)       17 345 kg (38,240 lb.)         Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment       Front       6323 kg (13,940 lb.)       6407 kg (14,124 lb.)         Rear       14 864 kg (32,770 lb.)       14 036 kg (30,944 lb.)       14 036 kg (30,944 lb.)         Total       21 187 kg (46,710 lb.)       20 443 kg (45,068 lb.)	25-mm (14 ft.x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x $^3/_4$ in.) Cutting		
Front 5094 kg (11,230 lb.) 5103 kg (11,250 lb.)  Rear 12 891 kg (28,420 lb.) 12 242 kg (26,990 lb.)  Total 17 985 kg (39,650 lb.) 17 345 kg (38,240 lb.)  Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment  Front 6323 kg (13,940 lb.) 6407 kg (14,124 lb.)  Rear 14 864 kg (32,770 lb.) 14 036 kg (30,944 lb.)  Total 21 187 kg (46,710 lb.) 20 443 kg (45,068 lb.)		EDA Final Tin //FU Chan N/	EDAT: 2/ELICI WA / EDAT: 2/ELIC: "
Rear       12 891 kg (28,420 lb.)       12 242 kg (26,990 lb.)         Total       17 985 kg (39,650 lb.)       17 345 kg (38,240 lb.)         Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment         Equipment       6323 kg (13,940 lb.)       6407 kg (14,124 lb.)         Rear       14 864 kg (32,770 lb.)       14 036 kg (30,944 lb.)         Total       21 187 kg (46,710 lb.)       20 443 kg (45,068 lb.)	•	-	
Total 17 985 kg (39,650 lb.) 17 345 kg (38,240 lb.)  Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other  Equipment  Front 6323 kg (13,940 lb.) 6407 kg (14,124 lb.)  Rear 14 864 kg (32,770 lb.) 14 036 kg (30,944 lb.)  Total 21 187 kg (46,710 lb.) 20 443 kg (45,068 lb.)			<b>3</b> · · · · · · · · · · · · · · · · · · ·
Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment Front 6323 kg (13,940 lb.) 6407 kg (14,124 lb.) Rear 14 864 kg (32,770 lb.) 14 036 kg (30,944 lb.) Total 21 187 kg (46,710 lb.) 20 443 kg (45,068 lb.)			
Block, Rear Ripper/Scarifier, and Other Equipment Front 6323 kg (13,940 lb.) 6407 kg (14,124 lb.) Rear 14 864 kg (32,770 lb.) 14 036 kg (30,944 lb.) Total 21 187 kg (46,710 lb.) 20 443 kg (45,068 lb.)	Total	17 985 kg (39,650 lb.)	17 345 kg (38,240 lb.)
Rear       14 864 kg (32,770 lb.)       14 036 kg (30,944 lb.)         Total       21 187 kg (46,710 lb.)       20 443 kg (45,068 lb.)	Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment		
Rear       14 864 kg (32,770 lb.)       14 036 kg (30,944 lb.)         Total       21 187 kg (46,710 lb.)       20 443 kg (45,068 lb.)	• •	6323 kg (13,940 lb.)	6407 kg (14,124 lb.)
Total 21 187 kg (46,710 lb.) 20 443 kg (45,068 lb.)			
		55g ( 10,020 ib.)	== 55 . Ng ( 10,020 10.)

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.)	– 126 kg (– 278 lb.)
with 203-mm x 19-mm (8 in. $x^3/4$ in.) cutting edge	
and 16-mm (⁵∕₃ in.) hardware	
3.96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.)	– 72 kg (– 159 lb.)
with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge	
and 16-mm (5/8 in.) hardware	01 (01)
4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)	0 kg (0 lb.)
with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge	
and 16-mm (5/₃ in.) hardware 4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)	0 5 1 (21 15 )
,	9.5 kg (21 lb.)
with 203-mm x 19-mm (8 in. $x^{3}/4$ in.) cutting edge and 19-mm ( $3/4$ in.) hardware	
4.88 m x 686 mm x 25 mm (16 ft. x 27 in. x 1 in.)	137 kg (302 lb.)
with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge	137 kg (302 lb.)
and 19-mm (3/4 in.) hardware	
Extensions, 610 mm (2 ft.) (right or left)	
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.)
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	1139 kg (2,510 lb.)
Shanks (3)	
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 Scarifier	001 (   (1 000    )
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	2.10 (206: 5: )
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 D Tandem Axle Spacing	3.05 m (10 ft. 0 in.)
E Blade Base	1.54 m (5 ft. 1 in.) 2.53 m (8 ft. 4 in.)
r plane page	2.33 111 (0 11. 4 111.)

Option Weights (continued)	872G/GP
Dozer Blade, Front Mounted	
2667 mm x 955 mm (105 in. x 37.6 in.)	590 kg (1,301 lb.)
2921 mm x 955 mm (115 in. x 37.6 in.)	648 kg (1,429 lb.)
Tires	
14.00-24, 12 PR G2	– 272.2 kg (– 600 lb.)
17.5-25, 12 PR G2/L2	– 157.9 kg (– 348 lb.)
14.00-R24, Radial, G2/L2 General Purpose	– 51.7 kg (– 114 lb.)
14.00-R24, Radial, G2/L2 Snow	– 10.9 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	89.8 kg (198 lb.)
550/65R25 XLD70 G3/L3 Radial, General Purpose	443.6 kg (978 lb.)
Multi-Piece Rims	
254 mm x 610 mm (10 in. x 24 in.)	– 85.3 kg (– 188 lb.)
356 mm x 635 mm (14 in. x 25 in.)	0 kg (0 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.)
Premium Air-Suspension, Heated Seat with Adjustable	12.7 kg (28 lb.)
Arm- and Headrests	
Fast-Fill Fuel System	13.6 kg (30 lb.)
Quick Service	10.9 kg (24 lb.)
Sound-Absorption Package (machines equipped with	14.1 kg (31 lb.)
Tier 3/Stage IIIA and Tier 2/Stage II engines only)	
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	4.5 kg (10 lb.)
16 Halogen Lights	7.3 kg (16 lb.)
18 Halogen and/or LED Lights	8.2 kg (18 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	6.8 kg (15 lb.)
Hydraulics for Front-Mounted Equipment	8.6 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.)
Overall Length with Scarifier and Ripper	10.59 m (34 ft. 9 in.)
For Overall Width see Tires/Wheels on page 38	



## Additional equipment

**Key:** ● Standard ▲ Optional or special

See your John Deere dealer for further information.

		870/	On anabarda Shakina		770/		
72	772	872	Operator's Station Low-profile ROPS/FOPS cab with	672	772	872	Elect
•	•	•	HVAC (ROPS ISO 3471 / FOPS SAE	<b>A</b>	<b>A</b>	<b>A</b>	Prem
			3449 Level II)	<b>A</b>	<b>A</b>	<b>A</b>	Tall fr Multi
_	<b>A</b>	<b>A</b>	Low-profile ROPS/FOPS cab utilizing	•	•	•	nosti
			laminated glass with fixed lower front	•	•	•	Rever
			and side opening windows	•	•	•	LED b
•	<b>A</b>	<b>A</b>	Opening front and side windows		Ť		Mold
_	_		(standard with Grade Pro)				Pate
•	•	•	Keyless start with multiple security modes		•		wear 3.66-
•	•	•	Fabric air-suspension seat with armrests and headrest				24 in 3.66-
<b>L</b>	<b>A</b>	<b>A</b>	Premium heated, leather/fabric, high-	_	_	_	27 in
			wide back, air-suspension seat with	•	•	•	3.96
			armrests (standard with Grade Pro)	_	_	_	27 in
	•	•	Sealed-switch module with function indicators	<b>A</b>	<b>A</b>		4.27
	•	•	Electric rear-window defroster				24 in
	•	•	Upper front and rear windshield	_	<b>A</b>	•	4.27
	•	•	washers with intermittent wipers				27 in
<b>A</b>	<b>A</b>	<b>A</b>	Lower front intermittent wiper and			•	4.88- 27 in
			washer		•		Quicl
<b>A</b>	<b>A</b>	<b>A</b>	Powered cab precleaner				mold
<b>L</b>	<b>A</b>	<b>A</b>	Decelerator pedal				wear
<b>\</b>			Flip-down, right- and/or left-hand cab	<b>A</b>	<b>A</b>		610-
_	_	_	beacon with bracket				exte
	•	•	Cab prewired for beacon, radio, and				boar
		•	auxiliary circuit Front window sun visor / retractable		<b>A</b>	<b>A</b>	610-
•	_		rear sunshade				exter boar
	•	•	Rearview mirrors, exterior (2) (SAE J985)	_	_	_	Reve
	<b>A</b>	•	Heated exterior mirrors (2) (SAE J985)		_		Over
<b>A</b>	<b>A</b>	<b>A</b>	Fire extinguisher	•	•	•	JDLir
<b>\</b>	<b>A</b>	•	High-resolution rearview camera with dedicated monitor				catio coun
•	•	•	Retractable seat belt, 76 mm (3 in.) (SAE 386)	•	•	•	Grou Fluid
<b>A</b>	<b>A</b>	•	AM/FM radio with auxiliary and weatherband	<b>A</b>	•	•	Fast- Fluid
<b>A</b>	$\blacktriangle$	<b>A</b>	AM/FM radio with Bluetooth®, auxil-				and o
			iary, weatherband, and XM Satellite				and t
_	_	_	Radio™ ready	•	•	•	Vand
•	•	•	Push-button-activated cruise control				door
			Electrical				Engi
	•	•	100-amp alternator				swite
•	<b>A</b>	<b>A</b>	130-amp alternator				disco
<u> </u>	_	_	200-amp alternator (FT4/Stage IV) Batteries (2), 1,400 CCA with 440-min.				cap /
•	•	•	reserve capacity	•	•	•	Envir engir
•	•	•	Left-hand engine compartment service-check light				entia Hydr
<b>A</b>	•	<b>A</b>	Right-hand engine compartment service-check light	•	•	•	rever
•	•	•	Transporting lights (4 halogen transport lights)				Bank filter axle
<b>A</b>	$\blacktriangle$	<b>A</b>	Grading lights (10 halogen lights)			•	Engir
<b>A</b>	$\blacktriangle$	•	Deluxe grading lights (18 halogen lights)	_	_	-	Auto

	770/	870/			770/		
672	772	872	Electrical (continued)	672	772	872	Overall Vehicle (continued)
<b>A</b>	<b>A</b>	<b>A</b>	Premium grading lights (18 LED lights)	•	•	•	Engine-stall prevention and auto- shutdown
<b>A</b>	<b>A</b>	<b>A</b>	Tall front snowplow light bar	•	•	•	Adjustable rotary engine precleaner
•	•	•	Multifunction/multi-language diag- nostic LCD color monitor				(FT4/Stage IV)
•	•	•	Reverse warning alarm (SAE J994)	<b>A</b>	•	•	Heavy-duty air cleaner (FT4/Stage IV)
•	•	•	LED brake and turn lights	•	•		Single-input circle drive
			Moldboard	<b>A</b>	<b>A</b>		Single-input circle drive with slip clutch
			Patented pre-stressed, high strength, wear resistant:	•	<b>A</b>	•	Heavy-duty dual-input circle drive without slip clutch
•	•		3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)	•	•	•	Heavy-duty dual-input circle drive with slip clutch
•	•	•	3.66-m x 686-mm x 25-mm (12 ft. x	<b>A</b>	•	•	AutoShift transmission
			27 in. x 1 in.)	<b>A</b>	$\blacktriangle$	$\blacktriangle$	Blade-impact-absorption system
$\blacktriangle$	<b>A</b>	$\blacktriangle$	3.96-m x 686-mm x 25-mm (13 ft. x	<b>A</b>	•	•	Front and/or rear wheel fenders
			27 in. x 1 in.)	<b>A</b>	$\blacktriangle$	$\blacktriangle$	Quick-service bank for transmission,
<b>A</b>	•		4.27-m x 610-mm x 22-mm (14 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)				hydraulic, engine oil, and engine cool- ant fluid changes
$\blacktriangle$	$\blacktriangle$	•	4.27-m x 686-mm x 25-mm (14 ft. x	<b>A</b>	<b>A</b>	<b>A</b>	Secondary steering
		•	27 in. x 1 in.) 4.88-m x 686-mm x 25-mm (16 ft. x	<b>A</b>	•	•	Sound-absorption package (Tier 3/ Stage IIIA and Tier 2/Stage II)
			27 in. x 1 in.)				Front Attachments
•	•	•	Quick-change and jackscrew-adjustable	<b>A</b>	<b>A</b>	<b>A</b>	Front push block
			moldboard side-shift extreme-duty wear inserts	•	•	<b>A</b>	V-type front scarifier with float position, 5 shanks
•	•		610-mm (24 in.) left- or right-hand extensions for 610-mm (24 in.) mold-	<b>A</b>	•	•	Mid-mount scarifier with float position, 11 shanks
	<b>A</b>	<b>A</b>	board 610-mm (24 in.) left- or right-hand	•	•	<b>A</b>	Front Balderson-style lift group with float position
			extensions for 686-mm (27 in.) mold- board	<b>A</b>	•	•	Front-mounted dozer blades (3 different widths)
<b>A</b>	<b>A</b>	<b>A</b>	Reversible overlay endbits				Rear Attachments
			Overall Vehicle	•	•	•	Full bottom guard with access panel and
•	•	•	JDLink™ Ultimate wireless communication system (available in specific countries; see your dealer for details)	•	<b>A</b>	<b>A</b>	side guards for rear vehicle protection Rear-mounted ripper/scarifier combi- nation with rear hitch and pin, 3 ripper
•	•	•	Ground-level fuel and Diesel Exhaust Fluid (DEF) filling	•	•	•	shanks Rear counterweight with rear hitch
<b>A</b>	<b>A</b>	<b>A</b>	Fast-fill fuel system				and pin
•	•	•	Fluid-sampling ports for engine oil	<b>A</b>	<b>A</b>	<b>A</b>	Rear hitch and pin
			and coolant, hydraulic oil, and axle and transmission fluids	<b>A</b>	•	<b>A</b>	Extra scarifier shanks (9) with teeth for rear ripper scarifier
•	•	•	Vandal-protection locking for: Cab doors / Top tank radiator-access door /	•	•	<b>A</b>	Extra ripper shanks (2) with teeth for rear ripper/scarifier
			Engine coolant surge tank / Hydraulic				Grade Pro (GP) Option
			reservoir cap / Battery-disconnect	•	•	•	Low-profile Grade Pro cab with open-
			switch / Ground-level electrical master disconnect switch / Fuel-tank door and				ing lower front and side windows
			cap / Toolbox Environmental drains with hoses for	•	•	<b>A</b>	Low-profile Grade Pro cab utilizing laminated glass with fixed lower front
			engine, transmission, hydraulic, differential fluids, and engine coolant	•	•	•	and side opening windows Premium heated, leather/fabric, high
•	•	•	Hydraulically driven cool-on-demand				wide-back air-suspension seat with armrests
•	•	•	reversing fan Banked easy-access vertical spin-on	•	•	•	Fingertip armrest-mounted controls including steering lever
			filters for hydraulic, transmission, and	•	•	•	Cross-slope
	_	•	axle fluids	•	•	•	Return to straight
	-	•	Engine rotary ejector precleaner Automatic differential lock	•	•	•	Grade-control-ready package
			Automatic unrecential lock		<b>A</b>	<b>A</b>	Topcon integrated grade control

