G/GP-SERIES GRADERS 164–211 kW (220–283 hp)







So many options, one obvious choice.

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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. In tandem- or 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 uptime-boosting features including a fuel-efficient nine-liter PowerTech[™] 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.

872GP

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

Your choice of EPA Tier 2, 3, or Interim Tier 4 (EU Stage II, IIIA, and IIIB) fuel-efficient John Deere diesels deliver generous displacement, power, and lugging ability. (Tier 2/Stage II not available in the U.S. and Canada.)

Production-boosting GP features such as automated crossslope control and push-button-activated return-to-straight make the most of a seasoned operator's skills. And help improve an inexperienced operator's game.

Long-term durability is bolstered by larger-than-usual articulation joint roller bearings, big-displacement wetsleeve diesel engines, and heavy-duty transmissions, to list just a few.

Only our graders are available with John Deere WorkSight[™]. This easy-to-use comprehensive suite of technology increases uptime and productivity while lowering operating costs. JDLink[™] machine monitoring provides real-time machine utilization and health data, plus location information. Fleet Care proactively suggests maintenance to correct problems early before they create costly downtime. Service ADVISOR[™] Remote enables your dealer to read diagnostic codes, record performance data, and even update software without a trip to the jobsite. And grade-control options make it easy to add your preferred system.

			ALC MARKED BARK				
Key speci	fications	670G/GP	672G/GP	770G/GP	772G/GP	870G/GP	872G/GP
Net power (IT4/Stage		164 kW (220 hp)	175 kW (235 hp)	183 kW (245 hp)	198 kW (265 hp)	198 kW (265 hp)	211 kW (283 hp)
Net peak t	torque	1101 Nm (812 lbft.)	1173 Nm (865 lbft.)	1235 Nm (911 lbft.)	1319 Nm (973 lbft.)	1300 Nm (959 lbft.)	1375 Nm (1,014 lbft.)
Net torqu	e rise	68%	62%	57%	50%	53%	51%
Typical op weight	erating	19 205 kg (42,340 lb.)	19 976 kg (44,040 lb.)	19 396 kg (42,760 lb.)	20 217 kg (44,570 lb.)	20 303 kg (44,760 lb.)	21 187 kg (46,710 lb.)
Blade pull		12 800 kg (28,220 lb.)	17 587 kg (38,773 lb.)	13 150 kg (28,990 lb.)	17 913 kg (39,491 lb.)	13 299 kg (29,320 lb.)	18 082 kg (39,864 lb.)

Seeing is believing.

It's easy to see why these graders are destined to become industry favorites. Visibility is clearly unsurpassed, with a large expanse of floor-to-ceiling 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 fatigue-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.

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

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

Narrow center console and streamlined saddle bring the blade and front tires within focus. On GP models (shown), control linkages have been eliminated and front windows lowered 114 mm (41/2 in.) to further enhance blade visibility.

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

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

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.

We've got your back with large adjustable mirrors that give a clear view of the tandems and ripper. Heated mirrors are also available. If you need to see more, an optional camera displays the action behind you on the color LCD monitor in front of you.







- Multi-language LCD monitor gives push-button access to a wealth of machine info including vital and general operating conditions, diagnostic codes, and even the activity behind you (when equipped with camera). On IT4 Stage IIIBequipped graders, exhaust filter operation and maintenance status are indicated with on-screen displays.
- 2. 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.
- Yet another example of doing things your way — an alternate mounting position on the right-side ROPS post makes it easy to relocate the monitor, giving way to a grade-control display.

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 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.

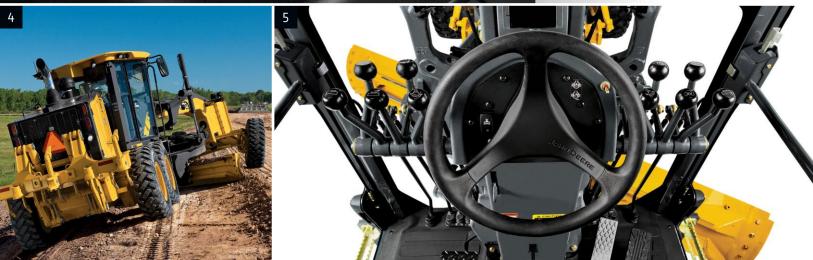
Beyond their predictable operatorfriendly controls, GP models come equipped with cross-slope, returnto-straight, and IGC ready. These and numerous other value-added advantages quickly pay for themselves in increased productivity.

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- 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.
- Cross-slope monitor can also be used as a slope meter. Colored bars on the LCD screen indicate the 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.



Levels everything but the playing field.

The G-Series' taller mainframe lets these highly productive graders shoulder larger loads and navigate more easily over obstacles. Provides plenty of clearance for a mid-mount scarifier, and simplifies blade setup and operation, too. You won't find easier-running graders, either. Our exclusive Event-Based Shifting (EBS) transmission delivers smoothas-silk gear and direction changes, for exceptional control and grading precision without extra effort. There's nothing else like them.

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

Automatic differential lock stays engaged when travelling straight, disengages in turns exceeding 10 degrees, and reengages when returning to straight.

When engine-stall prevention senses an overload, the system automatically shifts the transmission to neutral 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.

-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.

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 *Topcon, Trimble, Leica* or other grade-control systems is neat, quick, and noninvasive. For the most seamless solution, choose the optional Topcon 3D-MC² grade-control system that's ready to go when you take delivery of your GP Motor Grader.

- 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.
- **3.** 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.



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.

Variable-speed hydraulic reversing fan cycles to eject debris from the radiator and cooler cores only as needed, reducing fuel consumption while lowering sound levels and daily operating costs. Or choose your preferred cleaning cycles through the in-cab monitor.

Exclusive auto-shutdown turns off the engine after an operatordetermined 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.







- Sealed-switch module (SSM) 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.
- 2. Exclusive heavy-duty twin-drive circle gearbox delivers significantly increased durability in heavy-loaded applications. Standard on 870G/GP and 872G/GP, it's optional on others.
- Our IT4 Stage IIIB technology is simple, fuel efficient, fully integrated, and fully supported. It employs field-proven cooled exhaust gas recirculation (EGR) for reducing NO_x, and a diesel particulate filter (DPF) and diesel oxidation catalyst (DOC) to reduce particulate matter. Periodic active and passive regeneration automatically cleans the filter without impacting machine productivity.
- 4. 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.

Grounds for a John Deere six-wheel-drive grader.

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.

From blue-topping to heavy dirt work, six-wheel-drive G-Series Motor Graders are more productive in all kinds of applications.

Exclusive power-management system balances the demand between the front and rear wheels, delivering smooth six-wheel power.

Six-wheel drive enables these graders to work across steep slopes, carry big loads through corners, and direct the front wheels while ditching without spinning out.

- Steering system automatically adjusts the speed of the outside front tire while increasing pull to provide full-power turns.
- If traction and speed are what you need, you get it with a John Deere.
 All three models deliver six-wheel drive through 7th gear and 32 km/h (20 mph).

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3. Power is nothing without control. On our six-wheel-drive graders, the front wheels engage smoothly and in sync with the rear tandems — making them highly adept at finishing.



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 slide-out 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 fluidsample ports and advanced self-diagnostics — the G-Series are loaded with time- and money-saving features that help keep maintenance manageable.

- 1. Maintenance personnel will appreciate the unique easyaccess hydraulic, transmission, and differential filter bank.
- 2. Available quick fluid-service ports help speed servicing to increase uptime. 500-hour engine oil/filter; 2,000-hour transmission, hydraulic, and axle filters; and 4,000-hour transmission, hydraulic, and axle oil-service intervals minimize maintenance.
- **3.** Ground-level fueling and a fast-fill option get you back into the rat race more quickly.

- **4.** Two-hour replaceable supertough nylon or bronze draft frame and circle wear inserts minimize maintenance labor.
- 5. Should a problem arise, easyto-navigate LCD monitor provides diagnostic info and even offers possible troubleshooting solutions to decrease downtime.
- **6.** IT4 Stage IIIB diesel particulate filter is easily removed through the top of the engine compartment. Minimum service interval is 5,000 hours, and must be done by a John Deere dealer or other qualified service provider.





Compare the total cost of fluids, filters, parts, and labor for recommended maintenance and you'll discover the John Deere savings is substantial.

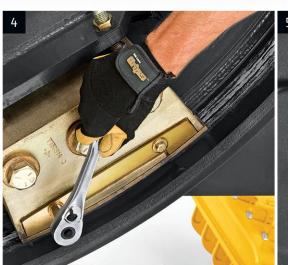
Large service doors open wide, and sameside daily checkpoints are conveniently grouped for easy ground-level access. Standard service compartment lights illuminate the way. NeverGrease[™] is the word for significant savings in operating costs. These nomaintenance pin joints eliminate numerous zerks and the attention they demand.

Most zerks are grouped in banks for quick and easy greasing. Conveniently displayed periodic lube and maintenance chart helps ensure that nothing's overlooked.

Exclusive cooling package eliminates stacked coolers. Together with the hinged swing-out fan, access to the cores is quick and cleaning is easy.

Hydraulically driven cool-on-demand fan runs only as needed, reducing fuel consumption and wear-causing debris flow through the cores.

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Engine	670G/GP		
Manufacturer and Model	John Deere PowerTech™ PSX 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech™ 6.8L
Non-Road Emissions Standard	EPA Interim Tier 4/EU Stage IIIB	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.)	6.8L (414 cu. in.)
Net Power			
Gear 1	121 kW (162 hp)	118 kW (158 hp)	115 kW (154 hp)
Gear 2	125 kW (168 hp)	121 kW (162 hp)	120 kW (161 hp)
Gear 3	134 kW (180 hp)	129 kW (173 hp)	129 kW (173 hp)
Gear 4	143 kW (192 hp)	138 kW (185 hp)	132 kW (177 hp)
Gear 5	151 kW (203 hp)	148 kW (198 hp)	134 kW (179 hp)
Gear 6	155 kW (208 hp)	153 kW (205 hp)	138 kW (185 hp)
Gear 7	158 kW (212 hp)	153 kW (205 hp)	138 kW (185 hp)
Gear 8	164 kW (220 hp)	157 kW (210 hp)	138 kW (185 hp)
Net Peak Torque	1101 Nm (812 lbft.)	1124 Nm (829 lbft.)	848 Nm (625 lbft.)
Net Torque Rise	68%	77%	45%
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled
Lubrication	Full-flow spin-on filter and inte- gral cooler	Full-flow spin-on filter and inte- gral cooler	Full-flow spin-on filter and inte- gral cooler
Air Cleaner with Restriction Indicator	Dual element, dry	Dual element, dry	Dual element, dry
Cooling			

Cooling

Cooling-on-demand, hydraulic-driven, variable-speed fan drive to optimize fuel consumption; auto-reversing fan to keep coolers clean; swing-out rear fan door and foldout or sliding 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	With no tire slip at 2,180 rpm, 14.00-R24 tires
Shift Lever Position 1	4.0 km/h (2.5 mph)
Shift Lever Position 2	5.6 km/h (3.5 mph)
Shift Lever Position 3	7.7 km/h (4.8 mph)
Shift Lever Position 4	10.9 km/h (6.8 mph)
Shift Lever Position 5	16.4 km/h (10.2 mph)
Shift Lever Position 6	23.2 km/h (14.4 mph)
Shift Lever Position 7	32.3 km/h (20.1 mph)
Shift Lever Position 8	45.5 km/h (28.3 mph)
Front Axle	Heavy-duty welded fabrication
Oscillation (total)	32 deg.
Wheel Lean Angle (each direction)	20 deg.
Differentials	Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic differential lock
Steering (all models include steering wheel)	All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro option
Turning Radius (front steer and articulation)	7.21 m (23 ft. 8 in.)
Articulation (both right and left)	22 deg.
Final Drives	Inboard-mounted planetary sealed in cooled, filtered oil
Drive-Chain Pitch	51 mm (2 in.)
Brakes	Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both independent systems effective on all 4 tandem wheels
Primary and Secondary Brakes	Hydraulically actuated, inboard of tandem pivot, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 3450)
Parking Brake	Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)

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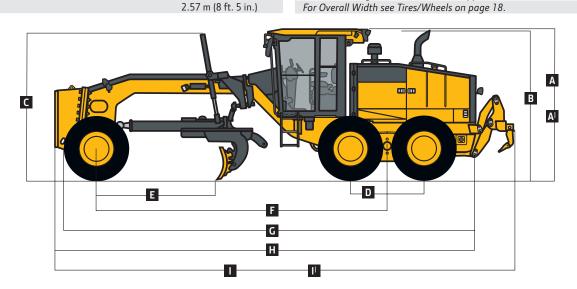


Hydraulics	670G/GP
,	CLS), variable-displacement piston pump, O-ring face-seal fittings
Maximum Pump Flow	212 L/min. (56 gpm)
Maximum System Pressure	18 961 kPa (2,750 psi)
Pump Displacement	90 cm ³ (5.5 cu. in.)
Blade Function	
	de-function controls; includes float position; 7 discrete saddle positions
Blade Range	
Lift Above Ground	490 mm (19.3 in.)
Blade Side Shift (right or left)	683 mm (26.9 in.)
Pitch at Ground Line	
Forward	42 deg.
Back	5 deg.
Shoulder Reach Outside Wheels (frame straight, right or left)	2083 mm (6 ft. 10 in.)
Bank Cut Angle (right or left)	90 deg.
Productivity	
Blade Pull (maximum weight [21 228 kg (46,800 lb.)], 0.9 coefficient of traction)	12 800 kg (28,220 lb.)
Electrical	
Solid-state load center and sealed-switch module	
Voltage	24 volt
Number of Batteries	2
Battery Capacity	1,400 CCA
Reserve Capacity	440 min.
Amp-Hour Rating	224 amp-hour
Alternator Rating	100, 130, or 150 amp
Lights	Driving lights; 2 high- and 2 low-beam halogen headlights; front and rear LED turn signals and marker lights; LED brake and hazard warning lights
Mainframe	
Туре	Welded box construction
Width (minimum)	307 mm (12.1 in.)
Height (minimum)	307 mm (12.1 in.)
Thickness	
Side	16 mm (0.63 in.)
Top and Bottom Plate	23 mm (0.89 in.)
Modulus	
Minimum Vertical Section	1445 cm ³ (88 cu. in.)
Average Vertical Section at Saddle	2245 cm³ (137 cu. in.)
Draft Frame (drawbar)	
	ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts
Circle	
Welded construction, heat-treated, machined for flat	
Circle Diameter	1524 mm (60 in.)
Circle Diameter Rotation	1524 mm (60 in.) 360 deg.
Circle Diameter Rotation Drive	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock
Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.)
Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable
Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system Length	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.)
Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable
Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system Length	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 3.66 m (12 ft. 0 in.)
Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge)	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 3.66 m (12 ft. 0 in.) 610 mm (24 in.)
Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge) Thickness	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 3.66 m (12 ft. 0 in.) 610 mm (24 in.)
Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge) Thickness Cutting Edge	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 3.66 m (12 ft. 0 in.) 610 mm (24 in.)

Scarifiers	670G/GP	
Scamers	Front	Mid-mount
Туре	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 hydrau- lic float
Width of Cut	1.20 m (4 ft. 0 in.)	1.19 m (3 ft. 11 in.)
Number of Shanks/Teeth	5 (maximum capacity 9)	11
Lift Above Ground	589 mm (23.2 in.)	335 mm (13.2 in.)
Maximum Penetration	335 mm (13.2 in.)	325 mm (12.8 in.)
Shank		
Spacing	146 mm (5.75 in.)	117 mm (4.6 in.)
Size	25 x 76 mm (1 x 3 in.)	25 x 76 mm (1 x 3 in.)
Front Lift Group (Balderson-style)		
Parallel linkage, mechanical pins, and hydraulic float		
Lift		
Above Ground (top of tube)	1864 mm (73.4 in.)	
Range	988 mm (38.9 in.)	
Rear Ripper/Scarifier		
Parallel linkage, with NeverGrease pin joints, hydraulic	: float, and integrated hitch	
	Ripper	Scarifier
Width of Cut	2.21 m (7 ft. 3 in.)	2.18 m (7 ft. 2 in.)
Number of Shanks/Teeth	3 (maximum capacity 5)	None standard (maximum capacity 9)
Lift Above Ground	602 mm (23.7 in.)	810 mm (31.9 in.)
Maximum Penetration	426 mm (16.8 in.)	323 mm (12.7 in.)
Shank Size	61.5 x 133 mm (2.42 x 5.25 in.)	25 x 76 mm (1 x 3 in.)
Operator Station		
Low-profile cab with ROPS (ISO 3471-2008) and FOPS	(ISO 3449-2005)	
Tires/Wheels		
	14.00-24 on 254-mm (10 in.) Rim	17.5-25 on 356-mm (14 in.) Rim
Wheel Tread on Ground (front and rear)	2.08 m (82 in.)	2.16 m (85 in.)
Overall Width (top of tires, front and rear)	2.49 m (98 in.)	2.64 m (104 in.)
Ground Clearance (front axle, front and rear)	587 mm (23.1 in.)	587 mm (23.1 in.)
Serviceability		
Refill Capacities		
Fuel Tank	416.4 L (110 gal.)	
Cooling System (6.8L engine)	43.9 L (11.6 gal.)	
Engine Oil with Filter (6.8L engine)	23.8 L (6.3 gal.)	
Transmission Fluid (refill)	28.4 L (7.5 gal.)	
Differential Housing	37.9 L (10 gal.)	
Tandem Housings (each)	73.8 L (19.5 gal.)	
Circle Gearbox	5.7 L (1.5 gal.)	
Hydraulic Reservoir	60.6 L (16 gal.)	
Operating Weights		
With Full Fuel Tank, 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, 14.00-24 Bias L2 Tires,		
and 79-kg (175 lb.) Operator	EPA Interim Tier 4/EU Stage IIIB	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Front	4178 kg (9,210 lb.)	4191 kg (9,240 lb.)
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		
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	0,00,01
Cutting Edge	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x ⁷ / ₈ in.)	45 kg (99 lb.)
with 203-mm x 19-mm (8 in. x $^{3}/_{4}$ in.) cutting edge	
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 ³ / ₄ in.) cutting edge	<u> </u>
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	-
and 16-mm (⁵ / ₈ in.) hardware	
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ⁷ / ₈ in.)	105 kg (231 lb.)
with 152-mm x 16-mm (6 in. x ⁵⁄₀ in.) cutting edge	
and 16-mm (⁵∕₀ in.) hardware	
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ⁷ / ₈ in.)	157.4 kg (347 lb.)
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge	
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	
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.)
Extended-Wear Circle Wear Inserts	19.5 kg (43 lb.)
Circle-Drive Slip Clutch	9.1 kg (20 lb.)
Moldboard Impact-Absorption System	43.1 kg (95 lb.)
Ripper/Scarifier, Rear Mounted with Hitch and Ripper	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	
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 m (10.ft F in)
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
A ¹ Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)
 B Height to Top of Exhaust (6.8L engine) C Height to Top of Blade-Lift Cylinders 	3.09 m (10 ft. 2 in.)
	3.05 m (10 ft. 0 in.) 1.54 m (5 ft. 1 in.)
D Tandem Axle Spacing E Blade Base	2.57 m (8 ft. 5 in.)
	2.57 111 (011. 5111.)

Option Weights (continued)	670G/GP
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	j, ,
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.)
Tall with Fixed Front and Openable Side Windows	58.5 kg (129 lb.)
With Opening Front and Openable Side Windows	73.0 kg (161 lb.)
Premium Air-Suspension, Heated Seat with Adjustable	12.7 kg (28 lb.)
Arm- and Headrests	3.
Coolant Heater	4.1 kg (9 lb.)
Fast-Fill Fuel System	13.6 kg (30 lb.)
Quick Service	10.9 kg (24 lb.)
Sound-Absorption Package (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	3
10 Halogen Lights	4.53 kg (10 lb.)
16 Halogen Lights	7.25 kg (16 lb.)
18 Halogen Lights	8.2 kg (18 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
24- to 12-Volt, 30-Amp Converter	1.4 kg (3 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	6.8 kg (15 lb.)
Hydraulics For Front-Mounted Equipment	8.6 kg (19 lb.)
Wipers/Washers, Lower-Front Windows	4.1 kg (9 lb.)
Machine Dimensions (continued)	
F Wheelbase	6.16 m (20 ft. 3 in.)
G Overall Length	8.89 m (29 ft. 2 in.)
H Overall Length with Scarifier	9.69 m (31 ft. 9 in.)
I Overall Length with Push Block and Ripper	9.99 m (32 ft. 9 in.)
I ^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™ PSX 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech™ 6.8L
Non-Road Emissions Standard	EPA Interim Tier 4/EU Stage IIIB	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.)	6.8L (414 cu. in.)
Net Power			
Gear 1 (6WD on)	133 kW (178 hp)	129 kW (173 hp)	129 kW (173 hp)
Gear 2 (6WD on)	137 kW (184 hp)	132 kW (177 hp)	132 kW (177 hp)
Gear 3 (6WD on)	146 kW (196 hp)	140 kW (188 hp)	134 kW (179 hp)
Gear 4 (6WD on)	155 kW (208 hp)	149 kW (200 hp)	134 kW (179 hp)
Gear 5 (6WD on)*	166 kW (223 hp)	157 kW (210 hp)	134 kW (179 hp)
Gear 6 (6WD on)*	170 kW (228 hp)	163 kW (218 hp)	138 kW (185 hp)
Gear 7 (6WD on)*	175 kW (235 hp)	163 kW (218 hp)	138 kW (185 hp)
Gear 8	172 kW (231 hp)	164 kW (220 hp)	138 kW (185 hp)
Net Peak Torque	1173 Nm (865 lbft.)	1153 Nm (850 lbft.)	848 Nm (625 lbft.)
Net Torque Rise	62%	72%	45%
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air coole
Lubrication	Full-flow spin-on filter and inte-	Full-flow spin-on filter and inte-	Full-flow spin-on filter and inte
	gral cooler	gral cooler	gral cooler
Air Cleaner with Restriction Indicator	Dual element, dry	Dual element, dry	Dual element, dry
*6WD is active in gears 1–7 only on machines eq Tier 2/Stage II engines.	uipped with IT4/Stage IIIB engines. 6WD	is active in gears 1–4 on machines eq	uipped with Tier 3/Stage IIIA and
Cooling Cooling-on-demand, hydraulic-driven, variable-sp			
Powertrain	–37 deg. C (–34 deg. F)		
Powertrain	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-po:	rive; increases tractive effort and fron placement pumps, axial-piston wheel sition rotary aggressiveness control a	motors, and freewheel at transp
Powertrain	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-po precision mode (propelled by front 1–7 forward and reverse (IT4/Stage	placement pumps, axial-piston wheel sition rotary aggressiveness control a	motors, and freewheel at transp nd inching capability down to 0 n
Powertrain 6-Wheel Drive	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-po: precision mode (propelled by front	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only)	motors, and freewheel at transp nd inching capability down to 0 n
Powertrain 6-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-pos precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines)	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only)	motors, and freewheel at transp nd inching capability down to 0 n
Powertrain 6-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-pos precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only)	motors, and freewheel at transp nd inching capability down to 0 n
Powertrain 6-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears Operating Speeds	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-po: precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph)	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only)	motors, and freewheel at transp nd inching capability down to 0 n
Powertrain 6-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-pos precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only)	motors, and freewheel at transp nd inching capability down to 0 n
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each)	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-po: precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 64 cm ³ (3.9 cu. in.)	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only)	motors, and freewheel at transp nd inching capability down to 0 n
Powertrain 6-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-pos precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 64 cm ³ (3.9 cu. in.) 60 cm ³ (3.7 cu. in.) 38.7:1 Direct-drive John Deere PowerShift	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only)	motors, and freewheel at transp nd inching capability down to 0 n everse (Tier 3/Stage IIIA and Tier vent-Based Shifting (EBS), inchin
Powertrain 6-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-pos precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 64 cm ³ (3.9 cu. in.) 60 cm ³ (3.7 cu. in.) 38.7:1 Direct-drive John Deere PowerShift pedal; independent transmission re	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only) e IIIB engine only) / 1–4 forward and r t Plus™, modulated shift-on-the-go, E	motors, and freewheel at transp nd inching capability down to 0 n everse (Tier 3/Stage IIIA and Tier vent-Based Shifting (EBS), inchin
Powertrain 6-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-pos precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 64 cm ³ (3.9 cu. in.) 60 cm ³ (3.7 cu. in.) 38.7:1 Direct-drive John Deere PowerShift pedal; independent transmission re	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only) e IIIB engine only) / 1–4 forward and r t Plus™, modulated shift-on-the-go, E	motors, and freewheel at transp nd inching capability down to 0 n everse (Tier 3/Stage IIIA and Tier vent-Based Shifting (EBS), inchin
Powertrain 6-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-pos precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 64 cm ³ (3.9 cu. in.) 60 cm ³ (3.7 cu. in.) 38.7:1 Direct-drive John Deere PowerShift pedal; independent transmission re gpm) gear pump	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only) e IIIB engine only) / 1–4 forward and r t Plus™, modulated shift-on-the-go, E	motors, and freewheel at transp nd inching capability down to 0 n everse (Tier 3/Stage IIIA and Tier vent-Based Shifting (EBS), inchin
Powertrain 6-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-pos precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 64 cm ³ (3.9 cu. in.) 60 cm ³ (3.7 cu. in.) 38.7:1 Direct-drive John Deere PowerShift pedal; independent transmission re gpm) gear pump	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only) e IIIB engine only) / 1—4 forward and r t Plus [™] , modulated shift-on-the-go, E eservoir with separate filtration and co	motors, and freewheel at transp nd inching capability down to 0 n everse (Tier 3/Stage IIIA and Tier vent-Based Shifting (EBS), inchin
Powertrain 6-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-pos precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 64 cm ³ (3.9 cu. in.) 60 cm ³ (3.7 cu. in.) 38.7:1 Direct-drive John Deere PowerShift pedal; independent transmission re gpm) gear pump 8 8	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only) e IIIB engine only) / 1—4 forward and r t Plus [™] , modulated shift-on-the-go, E eservoir with separate filtration and co	motors, and freewheel at transp nd inching capability down to 0 n everse (Tier 3/Stage IIIA and Tier vent-Based Shifting (EBS), inchin
Powertrain 6-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-pos precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 64 cm ³ (3.9 cu. in.) 60 cm ³ (3.7 cu. in.) 38.7:1 Direct-drive John Deere PowerShift pedal; independent transmission re gpm) gear pump 8 8 8	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only) e IIIB engine only) / 1—4 forward and r t Plus [™] , modulated shift-on-the-go, E eservoir with separate filtration and co	motors, and freewheel at transp nd inching capability down to 0 n everse (Tier 3/Stage IIIA and Tier vent-Based Shifting (EBS), inchin
Powertrain 5-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Shift Lever Position 1	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-pos precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 64 cm ³ (3.9 cu. in.) 60 cm ³ (3.7 cu. in.) 38.7:1 Direct-drive John Deere PowerShift pedal; independent transmission re gpm) gear pump 8 8 8 With no tire slip at 2,180 rpm, 14.4 4.0 km/h (2.5 mph)	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only) e IIIB engine only) / 1—4 forward and r t Plus [™] , modulated shift-on-the-go, E eservoir with separate filtration and co	motors, and freewheel at transp nd inching capability down to 0 n everse (Tier 3/Stage IIIA and Tier vent-Based Shifting (EBS), inchin
Powertrain 5-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Shift Lever Position 1 Shift Lever Position 2	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-pos precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 64 cm ³ (3.9 cu. in.) 60 cm ³ (3.7 cu. in.) 38.7:1 Direct-drive John Deere PowerShift pedal; independent transmission re gpm) gear pump 8 8 8 <i>With no tire slip at 2,180 rpm, 14.</i> 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph)	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only) e IIIB engine only) / 1—4 forward and r t Plus [™] , modulated shift-on-the-go, E eservoir with separate filtration and co	motors, and freewheel at transp nd inching capability down to 0 n everse (Tier 3/Stage IIIA and Tier vent-Based Shifting (EBS), inchin
Powertrain 5-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Shift Lever Position 1 Shift Lever Position 2 Shift Lever Position 3	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-pos precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 64 cm ³ (3.9 cu. in.) 60 cm ³ (3.7 cu. in.) 38.7:1 Direct-drive John Deere PowerShift pedal; independent transmission re gpm) gear pump 8 8 8 <i>With no tire slip at 2,180 rpm, 14.</i> 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 7.7 km/h (4.8 mph)	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only) e IIIB engine only) / 1—4 forward and r t Plus [™] , modulated shift-on-the-go, E eservoir with separate filtration and co	motors, and freewheel at transp nd inching capability down to 0 n everse (Tier 3/Stage IIIA and Tier vent-Based Shifting (EBS), inchin
Powertrain 6-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Shift Lever Position 1 Shift Lever Position 2 Shift Lever Position 3 Shift Lever Position 4	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-pos precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 64 cm ³ (3.9 cu. in.) 60 cm ³ (3.7 cu. in.) 38.7:1 Direct-drive John Deere PowerShift pedal; independent transmission re gpm) gear pump 8 8 8 <i>With no tire slip at 2,180 rpm, 14.1</i> 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 7.7 km/h (4.8 mph) 10.9 km/h (6.8 mph)	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only) e IIIB engine only) / 1—4 forward and r t Plus [™] , modulated shift-on-the-go, E eservoir with separate filtration and co	motors, and freewheel at transp nd inching capability down to 0 r everse (Tier 3/Stage IIIA and Tier vent-Based Shifting (EBS), inchin
Powertrain 6-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Shift Lever Position 1 Shift Lever Position 2 Shift Lever Position 3 Shift Lever Position 4 Shift Lever Position 5	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-pos precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 64 cm ³ (3.9 cu. in.) 60 cm ³ (3.7 cu. in.) 38.7:1 Direct-drive John Deere PowerShift pedal; independent transmission re gpm) gear pump 8 8 8 8 <i>With no tire slip at 2,180 rpm, 14.1</i> 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 7.7 km/h (4.8 mph) 10.9 km/h (6.8 mph) 16.4 km/h (10.2 mph)	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only) e IIIB engine only) / 1—4 forward and r t Plus [™] , modulated shift-on-the-go, E eservoir with separate filtration and co	motors, and freewheel at transp nd inching capability down to 0 r everse (Tier 3/Stage IIIA and Tier vent-Based Shifting (EBS), inchin
Powertrain 6-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Shift Lever Position 1 Shift Lever Position 2 Shift Lever Position 3 Shift Lever Position 4 Shift Lever Position 5 Shift Lever Position 6	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-por precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 64 cm ³ (3.9 cu. in.) 60 cm ³ (3.7 cu. in.) 38.7:1 Direct-drive John Deere PowerShift pedal; independent transmission re gpm) gear pump 8 8 8 <i>With no tire slip at 2,180 rpm, 14.</i> 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 7.7 km/h (4.8 mph) 10.9 km/h (6.8 mph) 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph)	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only) e IIIB engine only) / 1—4 forward and r t Plus [™] , modulated shift-on-the-go, E eservoir with separate filtration and co	motors, and freewheel at transp nd inching capability down to 0 r everse (Tier 3/Stage IIIA and Tier vent-Based Shifting (EBS), inchin
Powertrain 6-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Shift Lever Position 1 Shift Lever Position 2 Shift Lever Position 3 Shift Lever Position 4 Shift Lever Position 5 Shift Lever Position 5 Shift Lever Position 6 Shift Lever Position 7	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-por precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 64 cm ³ (3.9 cu. in.) 60 cm ³ (3.7 cu. in.) 38.7:1 Direct-drive John Deere PowerShift pedal; independent transmission re gpm) gear pump 8 8 8 <i>With no tire slip at 2,180 rpm, 14.</i> 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 7.7 km/h (4.8 mph) 10.9 km/h (6.8 mph) 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph) 32.3 km/h (20.1 mph)	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only) e IIIB engine only) / 1—4 forward and r t Plus [™] , modulated shift-on-the-go, E eservoir with separate filtration and co	motors, and freewheel at transp nd inching capability down to 0 n everse (Tier 3/Stage IIIA and Tier vent-Based Shifting (EBS), inchin
Powertrain 6-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Shift Lever Position 1 Shift Lever Position 2 Shift Lever Position 3 Shift Lever Position 4 Shift Lever Position 5 Shift Lever Position 5 Shift Lever Position 7 Shift Lever Position 7 Shift Lever Position 8	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-por precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 64 cm ³ (3.9 cu. in.) 60 cm ³ (3.7 cu. in.) 38.7:1 Direct-drive John Deere PowerShift pedal; independent transmission re gpm) gear pump 8 8 8 <i>With no tire slip at 2,180 rpm, 14.</i> 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 7.7 km/h (4.8 mph) 10.9 km/h (6.8 mph) 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph) 32.3 km/h (20.1 mph) 45.5 km/h (28.3 mph)	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only) e IIIB engine only) / 1—4 forward and r t Plus [™] , modulated shift-on-the-go, E eservoir with separate filtration and co	motors, and freewheel at transp nd inching capability down to 0 n everse (Tier 3/Stage IIIA and Tier vent-Based Shifting (EBS), inchin
Powertrain 6-Wheel Drive 6-Wheel-Drive Effective Gears Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Shift Lever Position 1 Shift Lever Position 2 Shift Lever Position 3 Shift Lever Position 4 Shift Lever Position 5 Shift Lever Position 5 Shift Lever Position 7 Shift Lever Position 7 Shift Lever Position 8 Front Axle	Automatic dual-path hydrostatic du and right systems with variable-dis speeds; operator-selectable 15-pop precision mode (propelled by front 1–7 forward and reverse (IT4/Stage Stage II engines) 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 64 cm ³ (3.9 cu. in.) 60 cm ³ (3.7 cu. in.) 38.7:1 Direct-drive John Deere PowerShift pedal; independent transmission re gpm) gear pump 8 8 8 <i>With no tire slip at 2,180 rpm, 14.</i> 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 7.7 km/h (4.8 mph) 10.9 km/h (6.8 mph) 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph) 32.3 km/h (20.1 mph) 45.5 km/h (28.3 mph) Heavy-duty welded fabrication	placement pumps, axial-piston wheel sition rotary aggressiveness control a wheels only) e IIIB engine only) / 1—4 forward and r t Plus [™] , modulated shift-on-the-go, E eservoir with separate filtration and co	motors, and freewheel at transp nd inching capability down to 0 n everse (Tier 3/Stage IIIA and Tier vent-Based Shifting (EBS), inchin

672GP

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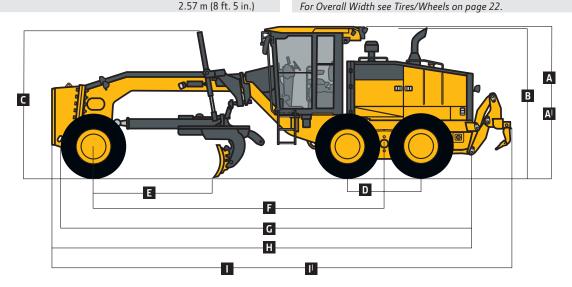


Powertrain (continued)	672G/GP
Steering (all models include steering wheel)	All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, position tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro optic
Turning Radius (front steer and articulation)	7.21 m (23 ft. 8 in.)
Articulation (both right and left)	22 deg.
Final Drives	Inboard-mounted planetary sealed in cooled, filtered oil
Drive-Chain Pitch	51 mm (2 in.)
Brakes	Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both independent systems effective on all 4 tandem wheels
Primary and Secondary Brakes Parking Brake	Hydraulically actuated, inboard of tandem pivot, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 345 Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)
Hydraulics	Automatically spring applied, infandancially received, on concer, sen adjusting (150 5 150)
	CLS), variable-displacement piston pump, O-ring face-seal fittings
Maximum Pump Flow	212 L/min. (56 gpm)
Maximum System Pressure	18 961 kPa (2,750 psi)
Pump Displacement	90 cm³ (5.5 cu. in.)
Blade Function	
All-hydraulic, industry-standard lever placement of bla Blade Range	de-function controls; includes float position; 7 discrete saddle positions
Lift Above Ground	490 mm (19.3 in.)
Blade Side Shift (right or left)	683 mm (26.9 in.)
Pitch at Ground Line	
Forward	42 deg.
Back	5 deg.
Shoulder Reach Outside Wheels (frame straight, right or left)	2083 mm (6 ft. 10 in.)
Bank Cut Angle (right or left)	90 deg.
Productivity	
Blade Pull (maximum weight [21 228 kg (46,800 lb.)], 0.9 coefficient of traction)	17 587 kg (38,773 lb.)
Electrical	
Solid-state load center and sealed-switch module	
Voltage	24 volt
Number of Batteries	2
Battery Capacity	1,400 CCA
	440 min.
Reserve Capacity	
Amp-Hour Rating	224 amp-hour
Alternator Rating	100, 130, or 150 amp
Lights	Driving lights; 2 high- and 2 low-beam halogen headlights; front and rear LED turn signals and marker lights; LED brake and hazard warning lights
Mainframe	
Туре	Welded box construction
Width (minimum)	307 mm (12.1 in.)
Height (minimum)	307 mm (12.1 in.)
Thickness	
Side	16 mm (0.63 in.)
Side	16 mm (0.63 in.) 23 mm (0.89 in.)
Side Top and Bottom Plate	16 mm (0.63 in.) 23 mm (0.89 in.)
Side Top and Bottom Plate Modulus	23 mm (0.89 in.)
Side Top and Bottom Plate Modulus Minimum Vertical Section	23 mm (0.89 in.) 1445 cm³ (88 cu. in.)
Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle	23 mm (0.89 in.)
Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar)	23 mm (0.89 in.) 1445 cm³ (88 cu. in.) 2245 cm³ (137 cu. in.)
Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d	23 mm (0.89 in.) 1445 cm³ (88 cu. in.)
Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle	23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts
Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle	23 mm (0.89 in.) 1445 cm³ (88 cu. in.) 2245 cm³ (137 cu. in.)
Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle	23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts
Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatn	23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts
Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatn Circle Diameter	23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts 1524 mm (60 in.)

Moldboard	672G/GP	
	resistant, high-carbon steel and reversible end bits; blac	le side-shift wear system includes quick-change replace
able wear inserts and quick-adjust jackscrew system		
Length	3.66 m (12 ft. 0 in.)	
Height (measured along arc, including cutting edge)	610 mm (24 in.)	
Thickness	22 mm (0.88 in.)	
Cutting Edge		
Dura-Max [™] through-hardened steel edge		
Thickness	16 mm (0.62 in.)	
Width	152 mm (6 in.)	
Scarifiers		
	Front	Mid-mount
Туре	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 hydrau- lic float
Width of Cut	1.20 m (4 ft. 0 in.)	1.19 m (3 ft. 11 in.)
Number of Shanks/Teeth	5 (maximum capacity 9)	11
Lift Above Ground	589 mm (23.2 in.)	335 mm (13.2 in.)
Maximum Penetration	335 mm (13.2 in.)	325 mm (12.8 in.)
Shank		
Spacing	146 mm (5.75 in.)	117 mm (4.6 in.)
Size	25 x 76 mm (1 x 3 in.)	25 x 76 mm (1 x 3 in.)
Front Lift Group (Balderson-style)		
Parallel linkage, mechanical pins, and hydraulic float		
Lift		
Above Ground (top of tube)	1864 mm (73.4 in.)	
Range	988 mm (38.9 in.)	
Rear Ripper/Scarifier		
Parallel linkage, with NeverGrease pin joints, hydraulic	float, and integrated hitch	
J J	Ripper	Scarifier
Width of Cut	2.21 m (7 ft. 3 in.)	2.18 m (7 ft. 2 in.)
Number of Shanks/Teeth	3 (maximum capacity 5)	None standard (maximum capacity 9)
Lift Above Ground	602 mm (23.7 in.)	810 mm (31.9 in.)
Maximum Penetration	426 mm (16.8 in.)	323 mm (12.7 in.)
Shank Size	61.5 x 133 mm (2.42 x 5.25 in.)	25 x 76 mm (1 x 3 in.)
Operator Station		
Low-profile cab with ROPS (ISO 3471-2008) and FOPS	(ISO 3449-2005)	
Tires/Wheels		
	14.00-24 on 254-mm (10 in.) Rim	17.5-25 on 356-mm (14 in.) Rim
Wheel Tread on Ground (front and rear)	2.08 m (82 in.)	2.16 m (85 in.)
Overall Width (top of tires, front and rear)	2.49 m (98 in.)	2.64 m (104 in.)
Ground Clearance (front axle, front and rear)	587 mm (23.1 in.)	587 mm (23.1 in.)
Serviceability		
Refill Capacities		
Fuel Tank	416.4 L (110 gal.)	
Cooling System (9.0L engine)	57.9 L (15.3 gal.)	
Engine Oil with Filter (9.0L engine)	28.0 L (7.4 gal.)	
Transmission Fluid (refill)	28.4 L (7.5 gal.)	
Differential Housing	37.9 L (10 gal.)	
Tandem Housings (each)	73.8 L (19.5 gal.)	
Circle Gearbox	5.7 L (1.5 gal.)	
Hydraulic Reservoir	60.6 L (16 gal.)	
Operating Weights		
With Full Fuel Tank, 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 $\frac{5}{6}$ in.) Cutting Edges, 14R24 L2 Tires, and 79-kg		
175 lb.) Operator	EPA Interim Tier 4/EU Stage IIIB	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.)
	· · · · · · · · · · · · · · · · · ·	
	16 996 kg (37,470 lb)	
Total Typical Operating Weight with Front Push Block, Rear	16 996 kg (37,470 lb.)	16 357 kg (36,060 lb.)
Total Typical Operating Weight with Front Push Block, Rear	6001 kg (13,230 lb.)	5974 kg (13,170 lb.)
Total Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment		
Total Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment Front	6001 kg (13,230 lb.)	5974 kg (13,170 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.)	45 kg (99 lb.)
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge	
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 ³ / ₄ in.) cutting edge	-
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	
and 16-mm (⁵ /8 in.) hardware	
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ⁷ /8 in.)	105 kg (231 lb.)
with 152-mm x 16-mm (6 in. x 5/8 in.) cutting edge	
and 16-mm (⁵ /8 in.) hardware	
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ⁷ / ₈ in.)	157.4 kg (347 lb.)
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge	
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	
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.)
Extended-Wear Circle Wear Inserts	19.5 kg (43 lb.)
Circle-Drive Slip Clutch	9.1 kg (20 lb.)
Moldboard Impact-Absorption System	43.1 kg (95 lb.)
Ripper/Scarifier, Rear Mounted with Hitch and Ripper	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 Scarifier	1338 kg (2,950 lb.)
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	2.19 m (10 ft E in)
	3.18 m (10 ft. 5 in.) 3.40 m (11 ft. 2 in.)
 A^I Height to Top of Full-Height Cab B Height to Top of Exhaust (9.0L engine) 	3.13 m (10 ft. 3 in.)
C Height to Top of Blade-Lift Cylinders	3.05 m (10 ft. 0 in.)
D Tandem Axle Spacing	1.54 m (5 ft. 1 in.)
E Blade Base	2.57 m (8 ft. 5 in.)
	2.57 11 (0 11. 5 11.)

Option Weights (continued)	672G/GP
Tires	
14.00-24, 12 PR G2	– 220.4 kg (– 486 lb.)
17.5-25, 12 PR G2/L2	– 106.1 kg (– 234 lb.)
14.00-R24, Radial, G2/L2 General Purpose	0 kg (0 lb.)
14.00-R24, Radial, G2/L2 Snow	40.8 kg (90 lb.)
17.5-R25, Radial, L2 General Purpose	51.7 kg (114 lb.)
17.5-R25, Radial, G2/L2 Snow	95.3 kg (210 lb.)
17.5-R25, Radial, G3/L3 General Purpose	141.5 kg (312 lb.)
One-Piece Rims	
229 mm x 610 mm (9 in. x 24 in.)	0 kg (0 lb.)
330 mm x 635 mm (13 in. x 25 in.)	70.8 kg (156 lb.)
Multi-Piece Rims	5.
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	<u> </u>
Front	76.7 kg (169 lb.)
Rear	140.6 kg (310 lb.)
Cab	J. ,
Low with Opening Front and Side Windows	14.5 kg (32 lb.)
Tall with Fixed Front and Side Windows	58.5 kg (129 lb.)
With Opening Front and Side Windows	73 kg (161 lb.)
Premium Air-Suspension, Heated Seat with Adjustable	12.7 kg (28 lb.)
Arm- and Headrests	
Coolant Heater	4.1 kg (9 lb.)
Fast-Fill Fuel System	13.6 kg (30 lb.)
Quick Service	10.9 kg (24 lb.)
Sound-Absorption Package (machines equipped with	14.1 kg (31 lb.)
Tier 3/Stage IIIA and Tier 2/Stage II engines only)	5, ,
Secondary Steering	26.3 kg (58 lb.)
Beacon Bracket	8.2 kg (18 lb.)
Fire Extinguisher	14.5 kg (32 lb.)
Lighting Packages	5, ,
10 Halogen Lights	4.53 kg (10 lb.)
16 Halogen Lights	7.25 kg (16 lb.)
18 Halogen Lights	8.2 kg (18 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
24- to 12-Volt, 30-Amp Converter	1.4 kg (3 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	6.8 kg (15 lb.)
Hydraulics For Front-Mounted Equipment	8.6 kg (19 lb.)
Wipers/Washers, Lower-Front Windows	4.1 kg (9 lb.)
Machine Dimensions (continued)	
F Wheelbase	6.16 m (20 ft. 3 in.)
G Overall Length	8.89 m (29 ft. 2 in.)
H Overall Length with Scarifier	9.69 m (31 ft. 9 in.)
I Overall Length with Push Block and Ripper	9.99 m (32 ft. 9 in.)
I ^I Overall Length with Scarifier and Ripper	10.59 m (34 ft. 9 in.)
For Overall Width see Tires/Wheels on page 22.	



Powertrain

Engine	770G/GP		
Manufacturer and Model	John Deere PowerTech™ PSX 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech™ 9.0L
Non-Road Emissions Standard	EPA Interim Tier 4/EU Stage IIIB	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 Power			
Gear 1	127 kW (170 hp)	123 kW (165 hp)	123 kW (165 hp)
Gear 2	129 kW (173 hp)	125 kW (167 hp)	125 kW (167 hp)
Gear 3	141 kW (189 hp)	137 kW (184 hp)	137 kW (184 hp)
Gear 4	152 kW (204 hp)	148 kW (198 hp)	148 kW (198 hp)
Gear 5	163 kW (219 hp)	157 kW (210 hp)	157 kW (210 hp)
Gear 6	175 kW (235 hp)	164 kW (220 hp)	164 kW (220 hp)
Gear 7	180 kW (241 hp)	168 kW (225 hp)	168 kW (225 hp)
Gear 8	183 kW (245 hp)	172 kW (230 hp)	172 kW (230 hp)
Net Peak Torque	1235 Nm (911 lbft.)	1227 Nm (905 lbft.)	1227 Nm (905 lbft.)
Net Torque Rise	57%	63%	63%
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled
Lubrication	Full-flow spin-on filter and inte- gral cooler	Full-flow spin-on filter and inte- gral cooler	Full-flow spin-on filter and inte- gral cooler
Air Cleaner with Restriction Indicator	Dual element, dry	Dual element, dry	Dual element, dry
Cooling			

77/00

Cooling-on-demand, hydraulic-driven, variable-speed fan drive to optimize fuel consumption; auto-reversing fan to keep coolers clean; swing-out rear fan door and foldout or sliding coolers for easy cleaning of all cooling components Engine Coolant, Extended Life, Rating -37 deg. C (-3

-37 deg. C (-34 deg. F)

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	With no tire slip at 2,180 rpm, 14.00-R24 tires
Shift Lever Position 1	4.0 km/h (2.5 mph)
Shift Lever Position 2	5.6 km/h (3.5 mph)
Shift Lever Position 3	7.7 km/h (4.8 mph)
Shift Lever Position 4	10.9 km/h (6.8 mph)
Shift Lever Position 5	16.4 km/h (10.2 mph)
Shift Lever Position 6	23.2 km/h (14.4 mph)
Shift Lever Position 7	32.3 km/h (20.1 mph)
Shift Lever Position 8	45.5 km/h (28.3 mph)
Front Axle	Heavy-duty welded fabrication
Oscillation (total)	32 deg.
Wheel Lean Angle (each direction)	20 deg.
Differentials	Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic differential lock
Steering (all models include steering wheel)	All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro option
Turning Radius (front steer and articulation)	7.21 m (23 ft. 8 in.)
Articulation (both right and left)	22 deg.
Final Drives	Inboard-mounted planetary sealed in cooled, filtered oil
Drive-Chain Pitch	51 mm (2 in.)
Brakes	Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both independent systems effective on all 4 tandem wheels
Primary and Secondary Brakes	Hydraulically actuated, inboard of tandem pivot, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 3450)
Parking Brake	Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)

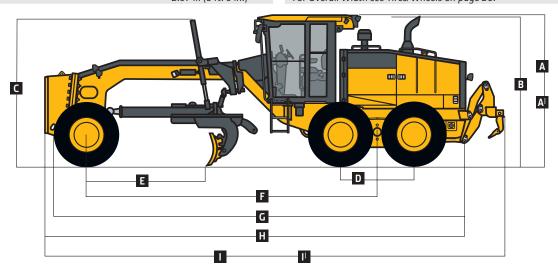


Hydraulics	770G/GP
	CLS), variable-displacement piston pump, O-ring face-seal fittings
Maximum Pump Flow	212 L/min. (56 gpm)
Maximum System Pressure	18 961 kPa (2,750 psi)
Pump Displacement	90 cm ³ (5.5 cu. in.)
Blade Function	
	de-function controls; includes float position; 7 discrete saddle positions
Blade Range	
Lift Above Ground	490 mm (19.3 in.)
Blade Side Shift (right or left)	683 mm (26.9 in.)
Pitch at Ground Line	
Forward	42 deg.
Back	5 deg.
Shoulder Reach Outside Wheels (frame straight, right or left)	2083 mm (6 ft. 10 in.)
Bank Cut Angle (right or left)	90 deg.
Productivity	
Blade Pull (maximum weight [21 772 kg (48,000 lb.)], 0.9 coefficient of traction)	13 150 kg (28,990 lb.)
Electrical	
Solid-state load center and sealed-switch module	
Voltage	24 volt
Number of Batteries	2
Battery Capacity	1,400 CCA
Reserve Capacity	440 min.
Amp-Hour Rating	224 amp-hour
Alternator Rating	100, 130, or 150 amp
Lights	Driving lights; 2 high- and 2 low-beam halogen headlights; front and rear LED turn signals and marker lights; LED brake and hazard warning lights
Mainframe	
Туре	Welded box construction
Type Width (minimum)	307 mm (12.1 in.)
Type Width (minimum) Height (minimum)	
Type Width (minimum) Height (minimum) Thickness	307 mm (12.1 in.) 307 mm (12.1 in.)
Type Width (minimum) Height (minimum) Thickness Side	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate	307 mm (12.1 in.) 307 mm (12.1 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm ³ (108 cu. in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar)	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm ³ (108 cu. in.) 2245 cm ³ (137 cu. in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm ³ (108 cu. in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm³ (108 cu. in.) 2245 cm³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatnes	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm ³ (108 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatn Circle Diameter	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm ³ (108 cu. in.) 2245 cm ³ (137 cu. in.) cuble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts 1524 mm (60 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatn Circle Diameter Rotation	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm ³ (108 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts 1524 mm (60 in.) 360 deg.
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatn Circle Diameter Rotation Drive	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm ³ (108 cu. in.) 2245 cm ³ (137 cu. in.) couble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts 1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatn Circle Diameter Rotation Drive Circle Side Shift (right and left)	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm ³ (108 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts 1524 mm (60 in.) 360 deg.
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatnes Welded construction, heat-treated, machined for flatnes Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear-	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm ³ (108 cu. in.) 2245 cm ³ (137 cu. in.) couble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts 1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatnes (ircle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm ³ (108 cu. in.) 2245 cm ³ (137 cu. in.) couble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts couble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ses, equipped with quick-change replaceable wear inserts 1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatness Welded construction, heat-treated, machined for flatness Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system Length	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm ³ (108 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts 1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 3.66 m (12 ft. 0 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatnes (ircle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm ³ (108 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts 1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 3.66 m (12 ft. 0 in.) 610 mm (24 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatness Welded construction, heat-treated, machined for flatness Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge)	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm ³ (108 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts 1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 3.66 m (12 ft. 0 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatnes Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge) Thickness	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm ³ (108 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts 1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 3.66 m (12 ft. 0 in.) 610 mm (24 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatness Welded construction, heat-treated, machined for flatness Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge) Thickness Cutting Edge	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm ³ (108 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts 1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 3.66 m (12 ft. 0 in.) 610 mm (24 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatness Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wearwear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge) Thickness Cutting Edge Dura-Max [™] through-hardened steel edge	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm ³ (108 cu. in.) 2245 cm ³ (137 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts 1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 3.66 m (12 ft. 0 in.) 610 mm (24 in.) 22 mm (0.88 in.)

Scarifiers	770G/GP				
	Front	Λ	Mid-mount		
Туре	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 hydrau- lic 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)	1	1		
Lift Above Ground	589 mm (23.2 in.)	3	35 mm (13.2 in.)		
Maximum Penetration	335 mm (13.2 in.)	3	325 mm (12.8 in.)		
Shank					
Spacing	146 mm (5.75 in.)	1	17 mm (4.6 in.)		
Size	25 x 76 mm (1 x 3 in.)	2	25 x 76 mm (1 x 3	in.)	
Front Lift Group (Balderson-style)					
Parallel linkage, mechanical pins, and hydraulic float					
Lift					
Above Ground (top of tube)	1864 mm (73.4 in.)				
Range	988 mm (38.9 in.)				
Rear Ripper/Scarifier					
Parallel linkage, with NeverGrease pin joints, hydraulic	float, and integrated hitch				
	Ripper		Scarifier		
Width of Cut	2.21 m (7 ft. 3 in.)		2.18 m (7 ft. 2 in.		
Number of Shanks/Teeth	3 (maximum capacity 5)			naximum capacity 9)	
Lift Above Ground	602 mm (23.7 in.)	8	310 mm (31.9 in.)		
Maximum Penetration	426 mm (16.8 in.)	3	323 mm (12.7 in.)		
Shank Size	61.5 x 133 mm (2.42 x 5.25 in.)	2	25 x 76 mm (1 x 3	in.)	
Operator Station					
Low-profile cab with ROPS (ISO 3471-2008) and FOPS	(ISO 3449-2005)				
Tires/Wheels					
	14.00-24 on 254-mm (10 in.) Rim	17.5-25 on 356-mn	n (14 in.) Rim	550/65R25 on 432-mm (17 in.) Rim	
Wheel Tread on Ground (front and rear)	2.08 m (82 in.)	2.16 m (85 in.)		2.21 m (87 in.)	
Overall Width (top of tires, front and rear)	2.49 m (98 in.)	2.64 m (104 in.)		2.77 m (109 in.)	
Ground Clearance (front axle, front and rear)	587 mm (23.1 in.)	587 mm (23.1 in.)		612 mm (24.1 in.)	
Serviceability					
Refill Capacities					
Fuel Tank	416.4 L (110 gal.)				
Cooling System	57.9 L (15.3 gal.)				
Engine Oil with Filter	28.0 L (7.4 gal.)				
Transmission Fluid (refill)	28.4 L (7.5 gal.)				
Differential Housing	37.9 L (10 gal.)				
Tandem Housings (each)	73.8 L (19.5 gal.)				
Circle Gearbox	5.7 L (1.5 gal.)				
Hydraulic Reservoir	60.6 L (16 gal.)				
Operating Weights					
With Full Fuel Tank, 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	EDA Interim Tier ///EU Stage IIIP	i	EDA Tion 2/EII C+-	age IIIA and EPA Tier 2/EU Stage II	
Tires, and 79-kg (175 lb.) Operator	EPA Interim Tier 4/EU Stage IIIB		194 11er 3720 Sta 1314 kg (9,510 lb		
Front Rear	4305 kg (9,490 lb.)		2	,	
	12 084 kg (26,640 lb.)		11 440 kg (25,220 lb.) 15 753 kg (34,730 lb.)		
Total Typical Operating Weight with Front Purch Plack, Poar	16 388 kg (36,130 lb.)	1	5755 Kg (34,73)	ן.טו ט.ן	
Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment		-			
Front	5570 kg (12,280 lb.)		605 kg (12,358		
Rear	13 825 kg (30,480 lb.)		3 175 kg (29,04		
Total Maximum Occuration Waight	19 396 kg (42,760 lb.)		18 781 kg (41,405 lb.)		
Maximum Operating Weight	21 772 kg (48,000 lb.)	2	21 772 kg (48,00	ן.ם ט.ן	

Option Weights	770G/GP			
Moldboards with Through-Hardened Dura-Max	, , ou, u			
Cutting Edge				
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x ⁷ / ₈ in.)	45 kg (99 lb.)			
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge				
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 ³ / ₄ in.) cutting edge				
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				
and 16-mm (⁵ / ₈ in.) hardware	1051 (221 //)			
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ⁷ / ₈ in.)	105 kg (231 lb.)			
with 152-mm x 16-mm (6 in. x ⁵ / ₈ in.) cutting edge				
and 16-mm (⁵ / ₈ in.) hardware 4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ⁷ / ₈ in.)	157 / kg (2/17 lb)			
4.27 m x 610 mm x 22 mm (14 m. x 24 m. x 78 m.) with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge	157.4 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				
and 16-mm ($5/8$ 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 ³ / ₄ in.) cutting edge				
and 19-mm (³ /4 in.) hardware				
Extensions, 610 mm (2 ft.) (right or left)				
For Use with 610-mm (24 in.) Moldboards	98.9 kg (218 lb.)			
For Use with 686-mm (27 in.) Moldboards	103.4 kg (228 lb.)			
Overlay End Bits, Reversible (one pair)				
For 152-mm (6 in.) Cutting Edge	19.5 kg (43 lb.)			
For 203-mm (8 in.) Cutting Edge	23.1 kg (51 lb.)			
Extended-Wear Circle Wear Inserts	19.5 kg (43 lb.)			
Circle-Drive Slip Clutch	9.1 kg (20 lb.)			
Moldboard Impact-Absorption System	43.1 kg (95 lb.)			
Ripper/Scarifier, Rear Mounted with Hitch and Ripper	1139 kg (2,510 lb.)			
Shanks (3)	60 kg (150 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 Rear Hitch	727.1 kg (1,603 lb.)			
Push Block, Front	54.4 kg (120 lb.)			
Scarifier	1338 kg (2,950 lb.)			
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	, 02.3 kg (1,002 lb.)			
A Height to Top of Cab	3.18 m (10 ft. 5 in.)			
A ^I Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)			
B Height to Top of Exhaust	3.13 m (10 ft. 3 in.)			
C Height to Top of Blade-Lift Cylinders	3.05 m (10 ft. 0 in.)			
D Tandem Axle Spacing	1.54 m (5 ft. 1 in.)			
E Blade Base	2.57 m (8 ft. 5 in.)			
	. /			

Option Weights (continued)	770G/GP
Tires	
14.00-24, 12 PR G2	– 220.4 kg (– 486 lb.)
17.5-25, 12 PR G2/L2	– 106.1 kg (– 234 lb.)
14.00-R24, Radial, G2/L2 General Purpose	0 kg (0 lb.)
14.00-R24, Radial, G2/L2 Snow	40.8 kg (90 lb.)
17.5-R25, Radial, L2 General Purpose	51.7 kg (114 lb.)
17.5-R25, Radial, G2/L2 Snow	95.3 kg (210 lb.)
17.5-R25, Radial, G3/L3 General Purpose	141.5 kg (312 lb.)
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.)	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.)
432 mm x 635 mm (17 in. x 25 in.)	321.1 kg (708 lb.)
Fenders	
Front	76.7 kg (169 lb.)
Rear	140.6 kg (310 lb.)
Cab	
Low with Opening Front and Side Windows	14.5 kg (32 lb.)
Tall with Fixed Front and Openable Side Windows	58.5 kg (129 lb.)
With Opening Front and Side Windows	73 kg (161 lb.)
Deluxe Cloth, Air-Suspension Seat with Adjustable Arm-	12.7 kg (28 lb.)
and Headrests	(11.01.)
Coolant Heater	4.1 kg (9 lb.)
Fast-Fill Fuel System	13.6 kg (30 lb.)
Quick Service Sound-Absorption Package (machines equipped with	10.9 kg (24 lb.)
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	4.53 kg (10 lb.)
16 Halogen Lights	7.25 kg (16 lb.)
18 Halogen Lights	8.2 kg (18 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
24- to 12-Volt, 30-Amp Converter	1.4 kg (3 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	6.8 kg (15 lb.)
Hydraulics For Front-Mounted Equipment	8.6 kg (19 lb.)
Wipers/Washers, Lower-Front Windows	4.1 kg (9 lb.)
Machine Dimensions (continued)	
F Wheelbase	6.16 m (20 ft. 3 in.)
G Overall Length	8.89 m (29 ft. 2 in.)
H Overall Length with Scarifier	9.69 m (31 ft. 9 in.)
I Overall Length with Push Block and Ripper	9.99 m (32 ft. 9 in.)
I Overall Length with Scarifier and Ripper	10.59 m (34 ft. 9 in.)
For Overall Width see Tires/Wheels on page 26.	



Engine	772G/GP		
Manufacturer and Model	John Deere PowerTech™ PSX 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech™ 9.0L
Non-Road Emissions Standard	EPA Interim Tier 4/EU Stage IIIB	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 Power			
Gear 1 (6WD on)	151 kW (202 hp)	145 kW (194 hp)	145 kW (194 hp)
Gear 2 (6WD on)	153 kW (205 hp)	148 kW (198 hp)	148 kW (198 hp)
Gear 3 (6WD on)	164 kW (220 hp)	164 kW (220 hp)	164 kW (220 hp)
Gear 4 (6WD on)	169 kW (226 hp)	164 kW (220 hp)	164 kW (220 hp)
Gear 5 (6WD on)	182 kW (244 hp)	174 kW (234 hp)	174 kW (234 hp)
Gear 6 (6WD on)	190 kW (255 hp)	179 kW (240 hp)	179 kW (240 hp)
Gear 7 (6WD on)	198 kW (265 hp)	183 kW (245 hp)	183 kW (245 hp)
Gear 8	186 kW (250 hp)	175 kW (235 hp)	175 kW (235 hp)
Net Peak Torque	1319 Nm (973 lbft.)	1288 Nm (950 lbft.)	1288 Nm (950 lbft.)
Net Torque Rise	50%	55%	55%
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air coole
ubrication	Full-flow spin-on filter and inte- gral cooler	Full-flow spin-on filter and inte- gral cooler	Full-flow spin-on filter and inte- gral cooler
Air Cleaner with Restriction Indicator	Dual element, dry	Dual element, dry	Dual element, dry
Cooling			

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

Powertrain	
6-Wheel Drive	Automatic dual-path hydrostatic drive; increases tractive effort and front-end control; includes separate left and right systems with variable-displacement pumps, axial-piston wheel motors, and freewheel at transport speeds; operator-selectable 15-position rotary aggressiveness control and inching capability down to 0 mph; precision mode (propelled by front wheels only)
6-Wheel-Drive Effective Gears	1–7 forward and reverse
Precision Mode	
Effective Gears	1–3 forward only
Operating Speeds	0.4–8.0 km/h (0.25–5.0 mph)
Hydrostatic Pumps (2 each)	64 cm ³ (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	8
Maximum Travel Speeds	With no tire slip at 2,180 rpm, 14.00-R24 tires
Shift Lever Position 1	4.0 km/h (2.5 mph)
Shift Lever Position 2	5.6 km/h (3.5 mph)
Shift Lever Position 3	7.7 km/h (4.8 mph)
Shift Lever Position 4	10.9 km/h (6.8 mph)
Shift Lever Position 5	16.4 km/h (10.2 mph)
Shift Lever Position 6	23.2 km/h (14.4 mph)
Shift Lever Position 7	32.3 km/h (20.1 mph)
Shift Lever Position 8	45.5 km/h (28.3 mph)
Front Axle	Heavy-duty welded fabrication
Oscillation (total)	32 deg.
Wheel Lean Angle (each direction)	20 deg.
Differentials	Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic differential lock



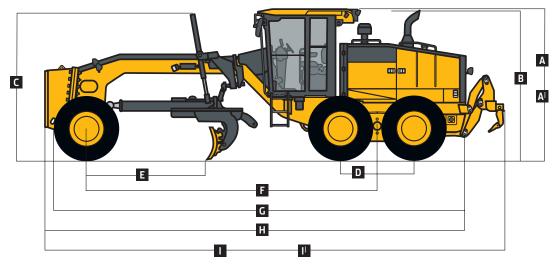
Powertrain (continued)	772G/GP
Steering (all models include steering wheel)	All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, position tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro option
Turning Radius (front steer and articulation)	7.21 m (23 ft. 8 in.)
Articulation (both right and left)	22 deg.
Final Drives	
Drive-Chain Pitch	Inboard-mounted planetary sealed in cooled, filtered oil
	51 mm (2 in.)
Brakes	Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both independent systems effective on all 4 tandem wheels
Primary and Secondary Brakes	Hydraulically actuated, inboard of tandem pivot, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 3450
Parking Brake	Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)
Hydraulics	
	CLS), variable-displacement piston pump, O-ring face-seal fittings
Maximum Pump Flow	212 L/min. (56 gpm)
Maximum System Pressure	18 961 kPa (2,750 psi)
Pump Displacement	90 cm ³ (5.5 cu. in.)
Blade Function	
All-hydraulic, industry-standard lever placement of bla	ide-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 dea.
Back	5 deg.
Shoulder Reach Outside Wheels (frame straight,	2083 mm (6 ft. 10 in.)
right or left)	
Bank Cut Angle (right or left)	90 deg.
Productivity	
Blade Pull (maximum weight [21 772 kg (48,000 lb.)],	17 913 kg (39,491 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, or 150 amp
Lights	Driving lights; 2 high- and 2 low-beam halogen headlights; front and rear LED turn signals and marker lights; LED
	brake and hazard warning lights
Mainframe	
Туре	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 cm ³ (108 cu. in.)
Average Vertical Section at Saddle	2245 cm ³ (137 cu. in.)
Draft Frame (drawbar)	
	ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts
	סטטוב טמוי-מוע-זטרגבו איטר נטווופנוטוו פעוואאפע אינוו עעונג-נוומועפ ופאומנפטופ אפמי וווצפונג
Circle	
	ness, equipped with quick-change replaceable wear inserts
	1524 mm (60 in.)
Circle Diameter	
Rotation	360 deg.
	360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.)

Moldboard	772G/GP				
High-strength, pre-stressed for higher strength, wear-		sible end bits; blade	side-shift wear sy	stem includes guick-change replace-	
able wear inserts and quick-adjust jackscrew system		,	,	5	
Length	3.66 m (12 ft. 0 in.)				
Height (measured along arc, including cutting edge)	610 mm (24 in.)				
Thickness	22 mm (0.88 in.)				
Cutting Edge					
Dura-Max [™] through-hardened steel edge					
Thickness	16 mm (0.62 in.)				
Width Scarifiers	152 mm (6 in.)				
Scarmers	Front		Mid-mount		
Туре	V-type toolbar with manual 2-pitch	positions with		ith NeverGrease [™] pin joints; V-type	
Type	hydraulic float	positions, with	toolbar with mar lic float	nual 3-pitch positions, with hydrau-	
Width of Cut	1.20 m (4 ft. 0 in.)		1.19 m (3 ft. 11 i	n)	
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	3 in.)	
Front Lift Group (Balderson-style)					
Parallel linkage, mechanical pins, and hydraulic float					
Lift					
Above Ground (top of tube)	1864 mm (73.4 in.)				
Range	988 mm (38.9 in.)				
Rear Ripper/Scarifier	6				
Parallel linkage, with NeverGrease pin joints, hydraulio			C : (*		
Width of Cut	Ripper		Scarifier	,	
Number of Shanks/Teeth	2.21 m (7 ft. 3 in.)		2.18 m (7 ft. 2 in.) None standard (maximum capacity 9)		
Lift Above Ground	3 (maximum capacity 5) 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		
Operator Station	01.5 x 155 mm (2.12 x 5.25 m.)		23 x 7 0 mm (1 x .	5	
Low-profile cab with ROPS (ISO 3471-2008) and FOPS	(ISO 3449-2005)				
Tires/Wheels	· · · ·				
	14.00-24 on 254-mm (10 in.) Rim	17.5-25 on 356-r	nm (14 in.) Rim	550/65R25 on 432-mm (17 in.) Rim	
Wheel Tread on Ground (front and rear)	2.08 m (82 in.)	2.16 m (85 in.)		2.21 m (87 in.)	
Overall Width (top of tires, front and rear)	2.49 m (98 in.)	2.64 m (104 in.)		2.77 m (109 in.)	
Ground Clearance (front axle, front and rear)	587 mm (23.1 in.)	587 mm (23.1 in.)		612 mm (24.1 in.)	
Serviceability					
Refill Capacities					
Fuel Tank	416.4 L (110 gal.)				
Cooling System	57.9 L (15.3 gal.)				
Engine Oil with Filter	28.0 L (7.4 gal.)				
Transmission Fluid (refill)	28.4 L (7.5 gal.)				
Differential Housing	37.9 L (10 gal.)				
Tandem Housings (each) Circle Gearbox	73.8 L (19.5 gal.) 5.7 L (1.5 gal.)				
Hydraulic Reservoir	60.6 L (16 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 Interim Tier 4/EU Stage IIIB		EPA Tier 3/EU St	age 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 (36,92	:0 lb.)	
Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment					
Front	6142 kg (13,540 lb.)		6177 kg (13,618		
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 (48,00		

Moldboards with Through-Hardened Dura-MaxCutting Edge3.66 m x 610 mm x 22 mm (12 ft: x 24 in. x 7/s in.)45 kg (99 lb.)with 203-mm x 19-mm (8 in. x 3/x in.) cutting edgeand 16-mm (5/s in.) hardware3.66 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/x in.) cutting edgeand 16-mm (5/s in.) hardware3.96 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/x in.) cutting edgeand 16-mm (5/s in.) hardware4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/s in.)with 102-mm x 10-mm (8 in. x 3/x in.) cutting edgeand 16-mm (5/s in.) hardware4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/s in.)with 203-mm x 19-mm (8 in. x 3/x in.) cutting edgeand 16-mm (5/s in.) hardware4.27 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/x in.) cutting edgeand 16-mm (5/s in.) hardware4.27 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/x in.) cutting edgeand 16-mm (5/s in.) hardware24.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)with 203-mm x 10 mm (2 ft.) [right or left)For Use with 610-mm (24 in.] Moldboards115.7 kg (255 lb.)For Use with 686-mm (27 in.) Moldboards115.7 kg (255 lb.)Overlay End Bits, Reversible (one pair)For 152-mm (6 in.) Cutting Edge19.5 kg (43 lb.)Gircle-Drive Slip ClutchMoldboard Impact-Absorption SystemMilphort, Kas at Teeth (2)Ga kg (150 lb.) <th>Option Weights</th> <th>772G/GP</th>	Option Weights	772G/GP
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x ⁷ /s in.) 45 kg (99 lb.) with 203-mm x 19-mm (8 in. x ³ /s in.) cutting edge 126 kg (277 lb.) 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 ¹ /s in.) cutting edge 180 kg (396 lb.) 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 ¹ /s in.) cutting edge 105 kg (231 lb.) with 52-mm x 16-mm (6 in. x ¹ /s in.) cutting edge 105 kg (231 lb.) and 16-mm (⁵ /s in.) hardware 157.4 kg (347 lb.) 4.27 m x 680 mm x 25 mm (14 ft. x 24 in. x ¹ /s in.) 180 kg (555 lb.) with 203-mm x 19-mm (8 in. x ¹ /s in.) cutting edge 157.4 kg (554 lb.) and 16-mm (⁵ /s in.) hardware 251.3 kg (555 lb.) 4.27 m x 680 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 ¹ /s in.) cutting edge 157.7 kg (255 lb.) and 19-mm (⁵ /s in.) hardware 221.3 kg (554 lb.) 4.27 m x 686 mm x 25 m (14 ft. x 27 in. x 1 in.) 260.8 kg (575 lb.) with 203-mm x 19-mm (8 in. x ¹ /s in.) cutting edge 157.7 kg (255 lb.) For Use with 610-mm (24 in.) Moldboards 115.7 kg (255 lb.) For Use with 610-mm (24 in.) Moldboards 115.7 kg (25		
with 203-mm x 19-mm (8 in. x ${}^{3}/_{x}$ in.) cutting edge and 16-mm (${}^{3}/_{x}$ in.) hardware126 kg (277 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 ${}^{3}/_{x}$ in.) cutting edge and 16-mm (${}^{3}/_{x}$ in.) hardware180 kg (396 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 ${}^{3}/_{x}$ in.) cutting edge and 16-mm (${}^{3}/_{x}$ in.) hardware105 kg (231 lb.)4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ${}^{3}/_{x}$ in.) with 152-mm x 16-mm (6 in. x ${}^{3}/_{x}$ in.) cutting edge and 16-mm (${}^{3}/_{x}$ in.) hardware157.4 kg (347 lb.)4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ${}^{3}/_{x}$ in.) with 203-mm x 19-mm (8 in. x ${}^{3}/_{x}$ in.) cutting edge and 16-mm (${}^{3}/_{x}$ in.) hardware251.3 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 ${}^{3}/_{x}$ in.) cutting edge and 16-mm (${}^{3}/_{x}$ in.) hardware260.8 kg (575 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 ${}^{3}/_{x}$ in.) cutting edge and 19-mm (${}^{3}/_{x}$ in.) cutting tedge115.7 kg (255 lb.)For Use with 686-mm (27 in.) Moldboards for Use with 686-mm (27 in.) Moldboards torus (260.8 kg (575 lb.)100For 152-mm (6 in.) Cutting Edge for 152-mm (6 in.) Cutting Edge torus (260.8 kg (150 lb.)113.7 kg (255 lb.)For 152-mm (6 in.) Cutting Edge torus (260.8 kg (130 lb.)113.8 kg (2,510 lb.)Moldboard Impact-Absorption System fron 25 kg (43 lb.)113.9 kg (2,510 lb.)Moldboard Impact-Absorption System from 1338 kg (2,950 lb.)1338 kg (2,950 lb.)Rear Counterweight with Integral Rear H	Cutting Edge	
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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 ³ / ₄ in.) cutting edge and 16-mm (⁵ / ₄ 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 / ₆ in.) hardware 4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ⁷ / ₈ in.) 105 kg (231 lb.) with 152-mm x 16-mm (6 in. x ⁵ / ₈ in.) cutting edge and 16-mm (⁵ / ₈ in.) hardware 4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ⁷ / ₈ in.) 157.4 kg (347 lb.) with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge 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 and 16-mm (⁵ / ₈ 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 ³ / ₄ in.) cutting edge and 19-mm (³ / ₄ in.) hardware Extensions, 610 mm (2 ft.) (right or left) For Use with 686-mm (27 in.) Moldboards 112.7 kg (255 lb.) For Use with 610-mm (24 in.) Moldboards 115.7 kg (251 lb.) 110 For 203-mm (8 in.) Cutting Edge 23.1 kg (51 lb.) 110 For 203-mm (8 in.) Cutting Edge 23.1 kg (51 lb.)	with 203-mm x 19-mm (8 in. x 3/4 in.) cutting edge	
with 203-mm x 19-mm (8 in. x ${}^{3}/_{4}$ in.) cutting edge and 16-mm (${}^{5}/_{6}$ in.) hardware180 kg (396 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 (${}^{5}/_{6}$ in.) hardware105 kg (231 lb.)4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ${}^{7}/_{6}$ in.) with 152-mm x 16-mm (6 in. x ${}^{5}/_{6}$ in.) cutting edge and 16-mm (${}^{5}/_{6}$ in.) hardware157.4 kg (347 lb.)4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ${}^{7}/_{6}$ in.) with 203-mm x 19-mm (8 in. x ${}^{3}/_{6}$ in.) cutting edge and 16-mm (${}^{5}/_{6}$ in.) hardware251.3 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 ${}^{3}/_{6}$ in.) cutting edge and 16-mm (${}^{7}/_{6}$ in.) hardware260.8 kg (575 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 ${}^{3}/_{6}$ in.) cutting edge and 19-mm (${}^{7}/_{6}$ in.) hardware260.8 kg (575 lb.)Extensions, 610 mm (2 ft.) (right or left) For Use with 686-mm (27 in.) Moldboards to 115.7 kg (255 lb.)15.7 kg (255 lb.)For Use with 686-mm (27 in.) Moldboards to 120.2 kg (265 lb.)19.5 kg (43 lb.) For 203-mm (8 in.) Cutting Edge to 19.5 kg (43 lb.)For Use with 686-mm (27 in.) Moldboards to 19.5 kg (43 lb.)13.1 kg (95 lb.)Kitende-Wear Circle Wear Inserts to 19.5 kg (43 lb.)19.5 kg (43 lb.)For Use with 686-mm (27 in.) Moldboards to 19.5 kg (43 lb.)11.5 kg (2,510 lb.)Moldboard Impact-Absorption System Karifier Shanks (3)43.1 kg (95 lb.)Ripper Shanks and Teeth (2) Push Block, Front to 1338 kg (2,950 lb.)1338 kg (2,950 lb.) <td>and 16-mm (⁵∕₀ in.) hardware</td> <td></td>	and 16-mm (⁵∕₀ in.) hardware	
and 16-mm ($5^{1/6}$ in.) hardware 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 $3^{1/4}$ in.) cutting edge and 16-mm ($5^{1/6}$ in.) hardware 4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x $7^{1/6}$ in.) with 152-mm x 16-mm (6 in. x $5^{1/6}$ in.) cutting edge and 16-mm ($5^{1/6}$ in.) hardware 4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x $7^{1/6}$ in.) with 203-mm x 19-mm (8 in. x $3^{1/4}$ in.) cutting edge and 16-mm ($5^{1/6}$ in.) hardware 4.27 m x 680 mm x 22 mm (14 ft. x 27 in. x 1 in.) with 203-mm x 19-mm (8 in. x $3^{1/4}$ in.) cutting edge and 16-mm ($5^{1/6}$ in.) hardware 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 $3^{1/4}$ in.) cutting edge and 16-mm ($5^{1/6}$ in.) hardware 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 $3^{1/4}$ in.) cutting edge and 19-mm ($7^{1/6}$ 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 666-mm (27 in.) Moldboards 120.2 kg (265 lb.) Overlay End Bits, Reversible (one pair) For 152-mm (6 in.) Cutting Edge 13.1 kg (20 lb.) Moldboard Impact-Absorption System 43.1 kg (20 lb.) Moldboard Impact-Absorption System 43.1 kg (95 lb.) Ripper/Scarifier, Rear Mounted with Hitch and Ripper Shanks (3) Scarifier Shanks and Teeth (2) 63 kg (139 lb.) Rear Counterweight with Integral Rear Hitch 72.7. kg (1,603 lb.) Rear Hitch Push Block, Front Scarifier Front Mount with Teeth (15) Rear Hitch Push Block, Front Scarifier Front Mount with Teeth (16) Add Height to Top of Cab A Height to Top of Cab A Height to Top of Full-Height Cab A Height to Top of Full-Height Cab A Height to Top of Full-Height Cab A Height to Top of Blade-Lift Cylinders A Height to Top of Blade-Lift Cylinders A Hoight to Top of Exhaust C Height to Top of Exhaust A Height to Top of Blade-	3.66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.)	126 kg (277 lb.)
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 / 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.) 105 kg (231 lb.) with 152-mm x 16-mm (6 in. x ⁵ / ₈ in.) cutting edge and 16-mm (⁵ / ₈ in.) hardware 157.4 kg (347 lb.) 4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ⁷ / ₈ in.) 157.4 kg (347 lb.) 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.) 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 ³ / ₄ in.) cutting edge and 16-mm (⁵ / ₈ in.) hardware 260.8 kg (575 lb.) Extensions, 610 mm (2 ft.) (right or left) For Use with 606-mm (27 in.) Moldboards 115.7 kg (255 lb.) For Use with 610-mm (24 in.) Moldboards 120.2 kg (265 lb.) 0verlay End Bits, Reversible (one pair) For 152-mm (8 in.) Cutting Edge 23.1 kg (51 lb.) Extended-Wear Circle Wear Inserts 19.5 kg (43 lb.) 113.0 kg (2,510 lb.) 113.0 kg (2,510 lb.) Gride-Drive Slip Clutch 9.1 kg (20 lb.) 113.0 kg (2,510 lb.) 113.0 kg (2	with 203-mm x 19-mm (8 in. x ³ /4 in.) cutting edge	
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge and 16-mm (⁵ / ₈ in.) hardware105 kg (231 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 / ₆ in.) cutting edge and 16-mm (⁵ / ₈ in.) hardware157.4 kg (347 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.) hardware157.4 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.) hardware251.3 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.) hardware260.8 kg (575 lb.)Extensions, 610 mm (2 ft.) (right or left) For Use with 610-mm (24 in.) Moldboards115.7 kg (255 lb.)For Use with 666-mm (27 in.) Moldboards120.2 kg (265 lb.)Overlay End Bits, Reversible (one pair) For 152-mm (6 in.) Cutting Edge23.1 kg (51 lb.)Extended-Wear Circle Wear Inserts19.5 kg (43 lb.)Circle-Drive Slip Clutch9.1 kg (20 lb.)Moldboard Impact-Absorption System43.1 kg (95 lb.)Ripper/Scarifier, Rear Mounted with Hitch and Ripper1139 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 Hitch74.4 kg (1,833 lb.)Mid-Mount with Teeth (5)831.4 kg (1,833 lb.)Mid-Mount with Teeth (5)831.4 kg (1,833 lb.)Mid-Mount with Teeth (5)831.4 kg (1,833 lb.)Mid-Mount with Teeth (5)762.	and 16-mm (⁵∕₀ in.) hardware	
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and 19-mm (³/4 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.) Extended-Wear Circle Wear Inserts 19.5 kg (43 lb.) Circle-Drive Slip Clutch 9.1 kg (20 lb.) Moldboard Impact-Absorption System 43.1 kg (95 lb.) Ripper/Scarifier, Rear Mounted with Hitch and Ripper 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 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 Height to Top of Full-Height Cab 3.40 m (11 ft. 2 in.) B 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.)	4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)	260.8 kg (575 lb.)
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D Tandem Axle Spacing 1.54 m (5 ft. 1 in.)		
	5 . ,	
E Blade Base 2.57 m (8 ft. 5 in.)		. ,
	E Blade Base	2.57 m (8 ft. 5 in.)

Option Weights (continued)	772G/GP
Tires	
14.00-24, 12 PR G2	– 220.4 kg (– 486 lb.)
17.5-25, 12 PR G2/L2	– 106.1 kg (– 234 lb.)
14.00-R24, Radial, G2/L2 General Purpose	0 kg (0 lb.)
14.00-R24, Radial, G2/L2 Snow	40.8 kg (90 lb.)
17.5-R25, Radial, L2 General Purpose	51.7 kg (114 lb.)
17.5-R25, Radial, G2/L2 Snow	95.3 kg (210 lb.)
17.5-R25, Radial, G3/L3 General Purpose	141.5 kg (312 lb.)
550/65R25 XLD70 G3/L3 Radial, General Purpose	495.3 kg (1,092 lb.)
One-Piece Rims	19919 ng (1992 191)
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	, etcg (1.5 e,
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.)
432 mm x 635 mm (17 in. x 25 in.)	251.3 kg (554 lb.)
Fenders	251.5 kg (55115.)
Front	76.7 kg (169 lb.)
Rear	140.6 kg (310 lb.)
Cab	1 10.0 kg (5 10 15.)
Low with Opening Front and Side Windows	14.5 kg (32 lb.)
Tall with Fixed Front and Side Windows	58.5 kg (129 lb.)
With Opening Front and Side Windows	73 kg (161 lb.)
Premium Air-Suspension, Heated Seat with Adjustable	12.7 kg (28 lb.)
Arm- and Headrests	(12)) (ig (10) (0))
Coolant Heater	4.1 kg (9 lb.)
Fast-Fill Fuel System	13.6 kg (30 lb.)
Quick Service	10.9 kg (24 lb.)
Sound-Absorption Package (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	4.53 kg (10 lb.)
16 Halogen Lights	7.25 kg (16 lb.)
18 Halogen Lights	8.2 kg (18 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
24- to 12-Volt, 30-Amp Converter	1.4 kg (3 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	6.8 kg (15 lb.)
Hydraulics For Front- and Rear-Mounted Equipment	8.6 kg (19 lb.)
2 Functions	17.2 kg (38 lb.)
Wipers/Washers, Lower-Front Windows	4.1 kg (9 lb.)
Machine Dimensions (continued)	
F Wheelbase	6.16 m (20 ft. 3 in.)
G Overall Length	8.89 m (29 ft. 2 in.)
H Overall Length with Scarifier	9.69 m (31 ft. 9 in.)
I Overall Length with Push Block and Ripper	9.99 m (32 ft. 9 in.)
I ^I Overall Length with Scarifier and Ripper	10.59 m (34 ft. 9 in.)
For Overall Width see Tires/Wheels on page 30.	. ,

For Overall Width see Tires/Wheels on page 30.



Engine	870G/GP		
Manufacturer and Model	John Deere PowerTech™ PSX 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech™ 9.0L
Non-Road Emissions Standard	EPA Interim Tier 4/EU Stage IIIB	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 Power			
Gear 1	138 kW (185 hp)	134 kW (180 hp)	134 kW (180 hp)
Gear 2	143 kW (192 hp)	136 kW (182 hp)	136 kW (182 hp)
Gear 3	157 kW (210 hp)	152 kW (204 hp)	152 kW (204 hp)
Gear 4	166 kW (223 hp)	163 kW (219 hp)	163 kW (219 hp)
Gear 5	172 kW (231 hp)	169 kW (227 hp)	169 kW (227 hp)
Gear 6	185 kW (248 hp)	179 kW (240 hp)	179 kW (240 hp)
Gear 7	195 kW (261 hp)	186 kW (250 hp)	186 kW (250 hp)
Gear 8	198 kW (265 hp)	190 kW (255 hp)	190 kW (255 hp)
Net Peak Torque	1300 Nm (959 lbft.)	1287 Nm (949 lbft.)	1287 Nm (949 lbft.)
Net Torque Rise	53%	60%	60%
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled
Lubrication	Full-flow spin-on filter and inte- gral cooler	Full-flow spin-on filter and inte- gral cooler	Full-flow spin-on filter and inte- gral cooler
Air Cleaner with Restriction Indicator	Dual element, dry	Dual element, dry	Dual element, dry
Cooling			

Cooling-on-demand, hydraulic-driven, variable-speed fan drive to optimize fuel consumption; auto-reversing fan to keep coolers clean; swing-out rear fan door and foldout or sliding coolers for easy cleaning of all cooling components Engine Coolant, Extended Life, Rating –37 deg. C (–34 deg. F) Powertrain

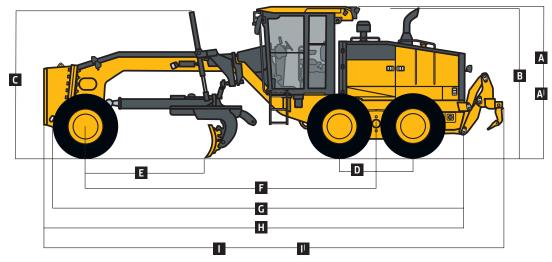
Transmission	Direct-drive John Deere PowerShift Plus™, modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; independent transmission reservoir with separate filtration and cooling system with 121-L/min. (32 gpm) gear pump
Gears	
Forward	8
Reverse	8
Maximum Travel Speeds	With no tire slip at 2,180 rpm, 14.00-R24 tires
Shift Lever Position 1	3.9 km/h (2.4 mph)
Shift Lever Position 2	5.6 km/h (3.5 mph)
Shift Lever Position 3	7.9 km/h (4.9 mph)
Shift Lever Position 4	10.9 km/h (6.8 mph)
Shift Lever Position 5	16.7 km/h (10.4 mph)
Shift Lever Position 6	23.3 km/h (14.5 mph)
Shift Lever Position 7	32.2 km/h (20.0 mph)
Shift Lever Position 8	45.0 km/h (28.0 mph)
Front Axle	Heavy-duty welded fabrication
Oscillation (total)	32 deg.
Wheel Lean Angle (each direction)	20 deg.
Differentials	Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic differential lock
Steering (all models include steering wheel)	All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro option
Turning Radius (front steer and articulation)	7.21 m (23 ft. 8 in.)
Articulation (both right and left)	22 deg.
Final Drives	Inboard-mounted planetary sealed in cooled, filtered oil
Drive-Chain Pitch	51 mm (2 in.)
Brakes	Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both independent systems effective on all 4 tandem wheels
Primary and Secondary Brakes	Hydraulically actuated, inboard of tandem pivot, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 3450)
Parking Brake	Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)



Hydraulics	870G/GP
,	CLS), variable-displacement piston pump, O-ring face-seal fittings
Maximum Pump Flow	217 L/min. (57.4 gpm)
Maximum System Pressure	18 961 kPa (2,750 psi)
Pump Displacement	90 cm ³ (5.5 cu. in.)
Blade Function	
	de-function controls; includes float position; 7 discrete saddle positions
Blade Range	are function controls, includes not position, 7 discrete sudare positions
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	42 deg. 5 deg.
	2329 mm (7 ft. 8 in.)
Shoulder Reach Outside Wheels (frame straight,	2329 mm (7 tt. 8 in.)
right or left)	0.4
Bank Cut Angle (right or left)	90 deg.
Productivity	10.00
Blade Pull (maximum weight [22 054 kg (48,620 lb.)], 0.9 coefficient of traction)	13 299 kg (29,320 lb.)
Electrical	
Solid-state load center and sealed-switch module	
Voltage	24 volt
Number of Batteries	2
Battery Capacity	1,400 CCA
Reserve Capacity	440 min.
Amp-Hour Rating	224 amp-hour
Alternator Rating	100, 130, or 150 amp
Lights	Driving lights; 2 high- and 2 low-beam halogen headlights; front and rear LED turn signals and marker lights; LED brake and hazard warning lights
Mainframe	
Туре	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 ³ (108 cu. in.)
Average Vertical Section at Saddle	2635 cm ³ (161 cu. in.)
Draft Frame (drawbar)	
	ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts
	dale bai and socket proteometron equipped with quee enange replaceable wear inserts
1 117 19	
Circle	uess equipped with quick-change replaceable wear inserts
Welded construction, heat-treated, machined for flat	ness, equipped with quick-change replaceable wear inserts
Welded construction, heat-treated, machined for flatr Circle Diameter	1524 mm (60 in.)
Welded construction, heat-treated, machined for flatr Circle Diameter Rotation	1524 mm (60 in.) 360 deg.
Welded construction, heat-treated, machined for flatr Circle Diameter Rotation Drive	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock
Welded construction, heat-treated, machined for flatr Circle Diameter Rotation Drive Circle Side Shift (right and left)	1524 mm (60 in.) 360 deg.
Welded construction, heat-treated, machined for flat Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear-	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock
Welded construction, heat-treated, machined for flat Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear wear inserts and quick-adjust jackscrew system	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable
Welded construction, heat-treated, machined for flat Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear wear inserts and quick-adjust jackscrew system Length	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 4.27 m (14 ft. 0 in.)
Welded construction, heat-treated, machined for flat Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge)	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 4.27 m (14 ft. 0 in.) 686 mm (27 in.)
Welded construction, heat-treated, machined for flat Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear wear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge) Thickness	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 4.27 m (14 ft. 0 in.)
Welded construction, heat-treated, machined for flat Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear wear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge) Thickness Cutting Edge	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 4.27 m (14 ft. 0 in.) 686 mm (27 in.)
Welded construction, heat-treated, machined for flat Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear wear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge) Thickness Cutting Edge Dura-Max [™] through-hardened steel edge	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 4.27 m (14 ft. 0 in.) 686 mm (27 in.) 25 mm (1 in.)
Welded construction, heat-treated, machined for flat Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear wear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge) Thickness Cutting Edge	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 4.27 m (14 ft. 0 in.) 686 mm (27 in.)

Scarifiers	870G/GP				
	Front		Mid-mount		
Туре	V-type toolbar with manual 2-pitch positions, with hydraulic float		Radial linkage, with NeverGrease [™] pin joints; V-type toolbar with manual 3-pitch positions, with hydraulic float		
Width of Cut	1.20 m (4 ft. 0 in.)		1.19 m (3 ft. 11 in.)		
Number of Shanks/Teeth	5 (maximum capacity 9)		11		
Lift Above Ground	589 mm (23.2 in.)		335 mm (13.2 in.)		
Maximum Penetration	335 mm (13.2 in.)		325 mm (12.8 in.)		
Shank					
Spacing	146 mm (5.75 in.)		117 mm (4.6 in.)		
Size	25 x 76 mm (1 x 3 in.)		25 x 76 mm (1 x 3	3 in.)	
Front Lift Group (Balderson-style)					
Parallel linkage, mechanical pins, and hydraulic float Lift					
Above Ground (top of tube)	1864 mm (73.4 in.)				
Range	988 mm (38.9 in.)				
Rear Ripper/Scarifier					
Parallel linkage, with NeverGrease pin joints, hydraulic	float, and integrated hitch				
	Ripper		Scarifier		
Width of Cut	2.21 m (7 ft. 3 in.)		2.18 m (7 ft. 2 in	.)	
Number of Shanks/Teeth	3 (maximum capacity 5)		•	, naximum 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		
Operator Station				,	
LOW-DIOTILE CAD WITH KUPS (ISU $34/1-2008)$ and FUPS	(ISO 3449-2005)				
	(ISO 3449-2005)				
•		17.5-25 on 356-	mm (14 in.) Rim	550/65R25 on 432-mm (17 in.) Riv	
Tires/Wheels	14.00-24 on 254-mm (10 in.) Rim	17.5-25 on 356- 2.16 m (85 in.)	mm (14 in.) Rim		
Tires/Wheels Wheel Tread on Ground (front and rear)	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.)	2.16 m (85 in.)	mm (14 in.) Rim	2.21 m (87 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear)	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear)	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.)	2.16 m (85 in.)		2.21 m (87 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill)	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each)	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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, 17.5 R 25 L2 Tires, and 79-kg (175 lb.) Operator	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.) 60.6 L (16 gal.) EPA Interim Tier 4/EU Stage IIIB	2.16 m (85 in.) 2.64 m (104 in.)	.) EPA Tier 3/EU Sta	2.21 m (87 in.) 2.77 m (109 in.) 612 mm (24.1 in.) age IIIA and EPA Tier 2/EU Stage II	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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, 17.5 R 25 L2 Tires, and 79-kg (175 lb.) Operator Front	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.) 60.6 L (16 gal.) EPA Interim Tier 4/EU Stage IIIB 4531 kg (9,990 lb.)	2.16 m (85 in.) 2.64 m (104 in.)	.) <i>EPA Tier 3/EU St</i> 0 4540 kg (10,010	2.21 m (87 in.) 2.77 m (109 in.) 612 mm (24.1 in.) age IIIA and EPA Tier 2/EU Stage II lb.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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, 17.5 R 25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.) 60.6 L (16 gal.) EPA Interim Tier 4/EU Stage IIIB 4531 kg (9,990 lb.) 12 487 kg (27,530 lb.)	2.16 m (85 in.) 2.64 m (104 in.)	.) <i>EPA Tier 3/EU St</i> a 4540 kg (10,010 11 843 kg (26,11	2.21 m (87 in.) 2.77 m (109 in.) 612 mm (24.1 in.) age IIIA and EPA Tier 2/EU Stage II Ib.) 0 lb.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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, 17.5 R 25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.) 60.6 L (16 gal.) EPA Interim Tier 4/EU Stage IIIB 4531 kg (9,990 lb.)	2.16 m (85 in.) 2.64 m (104 in.)	.) <i>EPA Tier 3/EU St</i> 0 4540 kg (10,010	2.21 m (87 in.) 2.77 m (109 in.) 612 mm (24.1 in.) age IIIA and EPA Tier 2/EU Stage II Ib.) 0 lb.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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, 17.5 R 25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.) 60.6 L (16 gal.) <i>EPA Interim Tier 4/EU Stage IIIB</i> 4531 kg (9,990 lb.) 12 487 kg (27,530 lb.) 17 019 kg (37,520 lb.)	2.16 m (85 in.) 2.64 m (104 in.)	.) <i>EPA Tier 3/EU St</i> 4540 kg (10,010 11 843 kg (26,11 16 384 kg (36,12	2.21 m (87 in.) 2.77 m (109 in.) 612 mm (24.1 in.) <i>age IIIA and EPA Tier 2/EU Stage II</i> Ib.) 0 lb.) 0 lb.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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, 17.5 R 25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.) 60.6 L (16 gal.) <i>EPA Interim Tier 4/EU Stage IIIB</i> 4531 kg (9.990 lb.) 12 487 kg (27,530 lb.) 17 019 kg (37,520 lb.)	2.16 m (85 in.) 2.64 m (104 in.)	.) <i>EPA Tier 3/EU St</i> 4540 kg (10,010 11 843 kg (26,11 16 384 kg (36,12 5869 kg (12,940	2.21 m (87 in.) 2.77 m (109 in.) 612 mm (24.1 in.) 612 mm (24.1 in.) 0 lb.) 0 lb.) 0 lb.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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, 17.5 R 25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.) 60.6 L (16 gal.) <i>EPA Interim Tier 4/EU Stage IIIB</i> 4531 kg (9,990 lb.) 12 487 kg (27,530 lb.) 17 019 kg (37,520 lb.)	2.16 m (85 in.) 2.64 m (104 in.)	.) <i>EPA Tier 3/EU St</i> 4540 kg (10,010 11 843 kg (26,11 16 384 kg (36,12	2.21 m (87 in.) 2.77 m (109 in.) 612 mm (24.1 in.) 612 mm (24.1 in.) 0 lb.) 0 lb.) 0 lb.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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, 17.5 R 25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment Front	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.) 60.6 L (16 gal.) <i>EPA Interim Tier 4/EU Stage IIIB</i> 4531 kg (9.990 lb.) 12 487 kg (27,530 lb.) 17 019 kg (37,520 lb.)	2.16 m (85 in.) 2.64 m (104 in.)	.) <i>EPA Tier 3/EU St</i> 4540 kg (10,010 11 843 kg (26,11 16 384 kg (36,12 5869 kg (12,940	2.21 m (87 in.) 2.77 m (109 in.) 612 mm (24.1 in.) 612 mm (24.1 in.) 0 lb.) 0 lb.) 0 lb.) 9 lb.)	

Option Weights	870G/GP	Option Weights (continued)	870G/GP
Moldboards with Through-Hardened Dura-Max		Tires (continued)	
Cutting Edge		14.00-R24, Radial, G2/L2 Snow	– 10.9 kg (– 24 lb.)
3.66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.)	– 126 kg (– 278 lb.)	17.5-R25, Radial, L2 General Purpose	0 kg (0 lb.)
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge		17.5-R25, Radial, G2/L2 Snow	43.5 kg (96 lb.)
and 16-mm (5/8 in.) hardware		17.5-R25, Radial, G3/L3 General Purpose	89.8 kg (198 lb.)
3.96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.)	– 72 kg (– 159 lb.)	550/65R25 XLD70 G3/L3 Radial, General Purpose	443.6 kg (978 lb.)
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge		Multi-Piece Rims	J. ,
and 16-mm (5/8 in.) hardware		254 mm x 610 mm (10 in. x 24 in.)	– 87.1 kg (– 192 lb.)
4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)	9.5 kg (21 lb.)	356 mm x 635 mm (14 in. x 25 in.)	0 kg (0 lb.)
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge		432 mm x 635 mm (17 in. x 25 in.)	54.4 kg (120 lb.)
and 16-mm (⁵ / ₈ in.) hardware		Fenders	- · · · · · · · · · · · · · · · · · · ·
4.88 m x 686 mm x 25 mm (16 ft. x 27 in. x 1 in.)	137 kg (302 lb.)	Front	76.7 kg (169 lb.)
with 203-mm x 19-mm (8 in. x $^{3}/_{4}$ in.) cutting edge		Rear	140.6 kg (310 lb.)
and 19-mm (³ / ₄ in.) hardware		Cab	1 1010 kg (5 10 151)
Extensions, 610 mm (2 ft.) (right or left)		Low with Opening Front and Side Windows	14.5 kg (32 lb.)
For Use with 686-mm (27 in.) Moldboards	120.2 kg (265 lb.)	Tall with Fixed Front and Side Windows	58.5 kg (129 lb.)
Overlay End Bits, Reversible (one pair)		With Opening Front and Side Windows	73 kg (161 lb.)
For 152-mm (6 in.) Cutting Edge	19.5 kg (43 lb.)	Premium Air-Suspension, Heated Seat with Adjustable	12.7 kg (28 lb.)
For 203-mm (8 in.) Cutting Edge	23.1 kg (51 lb.)	Arm- and Headrests	12.7 Kg (2010.)
Extended-Wear Circle Wear Inserts	19.5 kg (43 lb.)	Coolant Heater	4.1 kg (9 lb.)
Circle-Drive Slip Clutch	9.1 kg (20 lb.)	Fast-Fill Fuel System	13.6 kg (30 lb.)
Moldboard Impact-Absorption System	43.1 kg (95 lb.)	Quick Service	10.9 kg (24 lb.)
Ripper/Scarifier, Rear Mounted with Hitch and Ripper	1139 kg (2,510 lb.)	Sound-Absorption Package (machines equipped with	14.1 kg (31 lb.)
Shanks (3)		Tier 3/Stage IIIA and Tier 2/Stage II engines only)	14.1 kg (51 lb.)
Scarifier Shanks with Teeth (9 for rear ripper/scarifier)	68 kg (150 lb.)	Secondary Steering	26.3 kg (58 lb.)
Ripper Shanks and Teeth (2)	63 kg (139 lb.)	Beacon Bracket	8.2 kg (18 lb.)
Rear Counterweight with Integral Rear Hitch	727.1 kg (1,603 lb.)	Fire Extinguisher	J. ,
Rear Hitch	54.4 kg (120 lb.)		14.5 kg (32 lb.)
Push Block, Front	1338 kg (2,950 lb.)	Lighting Packages	
Scarifier		10 Halogen Lights	4.53 kg (10 lb.)
Front Mount with Teeth (5)	831.4 kg (1,833 lb.)	16 Halogen Lights	7.25 kg (16 lb.)
Mid-Mount with Teeth (11)	1481 kg (3,265 lb.)	18 Halogen Lights	8.2 kg (18 lb.)
Front Lift Group (Balderson-style)	762.9 kg (1,682 lb.)	High-Front Light Bar for Snowplowing	20 kg (44 lb.)
Tires		24- to 12-Volt, 30-Amp Converter	1.4 kg (3 lb.)
14.00-24, 12 PR G2	– 272.2 kg (– 600 lb.)	Auxiliary Hydraulic Control Valve Section and Controls	6.8 kg (15 lb.)
17.5-25, 12 PR G2/L2	– 157.9 kg (– 348 lb.)	Hydraulics For Front-Mounted Equipment	8.6 kg (19 lb.)
14.00-R24, Radial, G2/L2 General Purpose	– 51.7 kg (– 114 lb.)	Wipers/Washers, Lower-Front Windows	4.1 kg (9 lb.)
Machine Dimensions		Machine Dimensions (continued)	
A Height to Top of Cab	3.18 m (10 ft. 5 in.)	F Wheelbase	6.16 m (20 ft. 3 in.)
A ¹ Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)	G Overall Length	8.89 m (29 ft. 2 in.)
B Height to Top of Exhaust	3.13 m (10 ft. 3 in.)	H Overall Length with Scarifier	9.69 m (31 ft. 9 in.)
C Height to Top of Blade-Lift Cylinders	3.05 m (10 ft. 0 in.)	I Overall Length with Push Block and Ripper	9.99 m (32 ft. 9 in.)
D Tandem Axle Spacing	1.54 m (5 ft. 1 in.)	I ¹ Overall Length with Scarifier and Ripper	10.59 m (34 ft. 9 in.)
E Blade Base	2.53 m (8 ft. 4 in.)	For Overall Width see Tires/Wheels on page 34.	



hn Deere PowerTech™ 9.0L
A Tier 2/EU Stage II
DL (548 cu. in.)
(0 .0 00)
0 kW (214 hp)
3 kW (219 hp)
0 kW (241 hp)
0 kW (241 hp)
6 kW (250 hp)
8 kW (265 hp)
5 kW (275 hp)
8 kW (265 hp)
53 Nm (998 lbft.)
%
rbocharged, charge-air coole
II-flow spin-on filter and inte-
al cooler
ial element, dry
n; swing-out rear fan door ar
ching capability down to 0 m
Based Shifting (EBS), inching g system with 121-L/min. (32
ectable manual or automatic
ec



Powertrain (continued)	872G/GP
Steering (all models include steering wheel)	All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability; return-to-straight control included in
	Grade Pro option
Turning Radius (front steer and articulation)	7.21 m (23 ft. 8 in.)
Articulation (both right and left)	22 deg.
Final Drives	Inboard-mounted planetary sealed in cooled, filtered oil
Drive-Chain Pitch	51 mm (2 in.)
Brakes	Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both independent systems effective on all 4 tandem wheels
Primary and Secondary Brakes	Hydraulically actuated, inboard of tandem pivot, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 3450)
Parking Brake	Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)
Hydraulics	
Closed-center, pressure-compensated load-sensing (PCL)	S), variable-displacement piston pump, O-ring face-seal fittings
Maximum Pump Flow	217 L/min. (57.4 gpm)
Maximum System Pressure	18 961 kPa (2,750 psi)
Pump Displacement	90 cm ³ (5.5 cu. in.)
Blade Function	· · · · ·
	-function controls; includes float position; 7 discrete saddle positions
Blade Range	
Lift Above Ground	452 mm (17.8 in.)
Blade Side Shift (right or left)	683 mm (26.9 in.)
Pitch at Ground Line	
Forward	42 deg.
Back	5 deg.
Shoulder Reach Outside Wheels (frame straight, right or left)	2329 mm (7 ft. 8 in.)
Bank Cut Angle (right or left)	90 deg.
Productivity	10.002 (
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
Alternator Rating	100, 130, or 150 amp
Lights	Driving lights; 2 high- and 2 low-beam halogen headlights; front and rear LED turn signals and marker lights LED brake and hazard warning lights
Mainframe	
Туре	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 ³ (108 cu. in.)
Average Vertical Section at Saddle	2635 cm ³ (161 cu. in.)
Draft Frame (drawbar)	
	ble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts
Circle	sie oan and societ prot connection equipped with quick-thange replaceable wear inserts
Welded construction, heat-treated, machined for flatnes	s aquinped with quick change replaceable wear inserts
Circle Diameter	1524 mm (60 in.)
Rotation	
RUIdIIUII	360 deg.
	I had an all a market and an annual the second time leads
Drive Circle Side Shift (right and left)	Hydraulic motor and worm gear with positive lock 787 mm (31 in.)

Moldboard	872G/GP			
High-strength, pre-stressed for higher strength, wear-		sible end bits: blad	e side-shift wear sv	stem includes auick-change replace-
able wear inserts and quick-adjust jackscrew system		,,		
Length	4.27 m (14 ft. 0 in.)			
Height (measured along arc, including cutting edge)	686 mm (27 in.)			
Thickness	25 mm (1.00 in.)			
Cutting Edge				
Dura-Max [™] through-hardened steel edge				
Thickness	19 mm (0.75 in.)			
Width	203 mm (8 in.)			
Scarifiers	Frant		Mid mount	
Tura	Front	and the second second	Mid-mount	
Туре	V-type toolbar with manual 2-pitch hydraulic float	positions, with		ith NeverGrease™ pin joints; V-type nual 3-pitch positions, with hydrau-
Width of Cut	1.20 m (4 ft. 0 in.)		1.19 m (3 ft. 11 i	n.)
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	3 in.)
Front Lift Group (Balderson-style)				
Parallel linkage, mechanical pins, and hydraulic float Lift				
Above Ground (top of tube)	1864 mm (73.4 in.)			
Range	988 mm (38.9 in.)			
Rear Ripper/Scarifier				
Parallel linkage, with NeverGrease pin joints, hydraulic	float, and integrated hitch			
	Ripper		Scarifier	
Width of Cut	2.21 m (7 ft. 3 in.)		2.18 m (7 ft. 2 in	
Number of Shanks/Teeth	3 (maximum capacity 5)			naximum 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	3 in.)
Operator Station	(150, 36/60, 2005)			
Low-profile cab with ROPS (ISO 3471-2008) and FOPS Tires/Wheels	(150 3449-2005)			
Tires/wheels	14.00-24 on 254-mm (10 in.) Rim	17.5-25 on 356-	mm (1/L in) Dim	550/65R25 on 432-mm (17 in.) Rim
Wheel Tread on Ground (front and rear)	2.08 m (82 in.)	2.16 m (85 in.)	11111 (1 4 111.) Killi	2.21 m (87 in.)
Overall Width (top of tires, front and rear)	2.49 m (98 in.)	2.64 m (104 in.)		2.77 m (109 in.)
Ground Clearance (front axle, front and rear)	587 mm (23.1 in.)	587 mm (23.1 in.)	612 mm (24.1 in.)
Serviceability		507 1111 (2511 111	,	0.2(2)
Refill Capacities				
Fuel Tank	416.4 L (110 gal.)			
Cooling System	57.9 L (15.3 gal.)			
Engine Oil with Filter	28.0 L (7.4 gal.)			
Transmission Fluid (refill)	28.4 L (7.5 gal.)			
Differential Housing	37.9 L (10 gal.)			
Tandem Housings (each)	73.8 L (19.5 gal.)			
Circle Gearbox	5.7 L (1.5 gal.)			
Hydraulic Reservoir	60.6 L (16 gal.)			
Operating Weights				
With Full Fuel Tank, 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 R 25 L2 Tires, and				
79-kg (175 lb.) Operator	EPA Interim Tier 4/EU Stage IIIB		EPA Tier 3/EU St	age 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 (26,99	
Total	17 985 kg (39,650 lb.)		17 345 kg (38,24	0 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 (30,94	
Total	21 187 kg (46,710 lb.)		20 443 kg (45,06	
Maximum Operating Weight	22 054 kg (48,620 lb.)		22 054 kg (48,62	:0 lb.)

Option Weights	872G/GP	Option Weights (continued)
Moldboards with Through-Hardened Dura-Max		Tires (continued)
Cutting Edge		14.00-R24, Radial, G2/L2 Snow
3.66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.)	– 126 kg (– 278 lb.)	17.5-R25, Radial, L2 General Purpose
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge		17.5-R25, Radial, G2/L2 Snow
and 16-mm (5/8 in.) hardware		17.5-R25, Radial, G3/L3 General Purpose
3.96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.)	– 72 kg (– 159 lb.)	550/65R25 XLD70 G3/L3 Radial, General Purpose
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge		Multi-Piece Rims
and 16-mm (⁵ /8 in.) hardware		254 mm x 610 mm (10 in. x 24 in.)
4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)	9.5 kg (21 lb.)	356 mm x 635 mm (14 in. x 25 in.)
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge		432 mm x 635 mm (17 in. x 25 in.)
and 16-mm (5/8 in.) hardware		Fenders
4.88 m x 686 mm x 25 mm (16 ft. x 27 in. x 1 in.)	137 kg (302 lb.)	Front
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge		Rear
and 19-mm (³ / ₄ in.) hardware		Cab
Extensions, 610 mm (2 ft.) (right or left)	120.21 /277.11	Low with Opening Front and Side Windows
For Use with 686-mm (27 in.) Moldboards	120.2 kg (265 lb.)	Tall with Fixed Front and Side Windows
Overlay End Bits, Reversible (one pair)		With Opening Front and Side Windows
For 152-mm (6 in.) Cutting Edge	19.5 kg (43 lb.)	
For 203-mm (8 in.) Cutting Edge	23.1 kg (51 lb.)	Premium Air-Suspension, Heated Seat with Adjustable Arm- and Headrests
Extended-Wear Circle Wear Inserts	19.5 kg (43 lb.)	
Circle-Drive Slip Clutch	9.1 kg (20 lb.)	Coolant Heater
Moldboard Impact-Absorption System	43.1 kg (95 lb.)	Fast-Fill Fuel System
Ripper/Scarifier, Rear Mounted with Hitch and Ripper	1139 kg (2,510 lb.)	Quick Service
Shanks (3)		Sound-Absorption Package (machines equipped with
Scarifier Shanks with Teeth (9 for rear ripper/scarifier)	68 kg (150 lb.)	Tier 3/Stage IIIA and Tier 2/Stage II engines only)
Ripper Shanks and Teeth (2)	63 kg (139 lb.)	Secondary Steering
Rear Counterweight with Integral Rear Hitch	727.1 kg (1,603 lb.)	Beacon Bracket
Rear Hitch	54.4 kg (120 lb.)	Fire Extinguisher
Push Block, Front	1338 kg (2,950 lb.)	Lighting Packages
Scarifier		10 Halogen Lights
Front Mount with Teeth (5)	831.4 kg (1,833 lb.)	16 Halogen Lights
Mid-Mount with Teeth (11)	1481 kg (3,265 lb.)	18 Halogen Lights
Front Lift Group (Balderson-style)	762.9 kg (1,682 lb.)	High-Front Light Bar for Snowplowing
Tires		24- to 12-Volt, 30-Amp Converter
14.00-24, 12 PR G2	– 272.2 kg (– 600 lb.)	Auxiliary Hydraulic Control Valve Section and Controls
17.5-25, 12 PR G2/L2	– 157.9 kg (– 348 lb.)	Hydraulics For Front-Mounted Equipment
14.00-R24, Radial, G2/L2 General Purpose	– 51.7 kg (– 114 lb.)	Wipers/Washers, Lower-Front Windows
Machine Dimensions		Machine Dimensions (continued)
A Height to Top of Cab	3.18 m (10 ft. 5 in.)	F Wheelbase
A ¹ Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)	G Overall Length
B Height to Top of Exhaust	3.13 m (10 ft. 3 in.)	H Overall Length with Scarifier
C Height to Top of Blade-Lift Cylinders	3.05 m (10 ft. 0 in.)	I Overall Length with Push Block and Ripper
D Tandem Axle Spacing	1.54 m (5 ft. 1 in.)	I ¹ Overall Length with Scarifier and Ripper
E Blade Base	2.53 m (8 ft. 4 in.)	For Overall Width see Tires/Wheels on page 38.

0 kg (0 lb.) 46.3 kg (102 lb.)

76.7 kg (169 lb.) 140.6 kg (310 lb.) 14.5 kg (32 lb.) 58.5 kg (129 lb.) 73 kg (161 lb.)

12.7 kg (28 lb.) 4.1 kg (9 lb.) 13.6 kg (30 lb.) 10.9 kg (24 lb.) 14.1 kg (31 lb.)

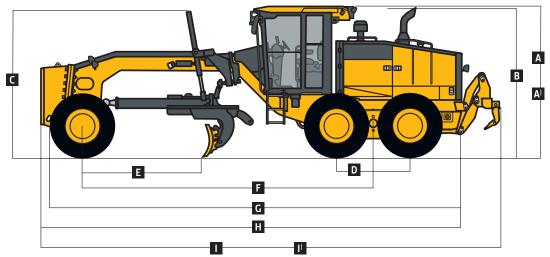
26.3 kg (58 lb.) 8.2 kg (18 lb.) 14.5 kg (32 lb.) 4.53 kg (10 lb.) 7.25 kg (16 lb.) 8.2 kg (18 lb.) 20 kg (44 lb.) 1.4 kg (3 lb.)

6.8 kg (15 lb.) 8.6 kg (19 lb.) 4.1 kg (9 lb.)

6.16 m (20 ft. 3 in.) 8.89 m (29 ft. 2 in.) 9.69 m (31 ft. 9 in.) 9.99 m (32 ft. 9 in.) 10.59 m (34 ft. 9 in.)

- 10.9 kg (- 24 lb.) 0 kg (0 lb.) 43.5 kg (96 lb.) 89.8 kg (198 lb.) 443.6 kg (978 lb.)

– 85.3 kg (– 188 lb.)



Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

670	672	770	772	870	872	Operator's Station
٠	٠	٠	٠	٠	٠	Low-profile ROPS/FOPS cab with HVAC (ROPS ISO 3471 /
						FOPS SAE 3449 Level II)
						Tall ROPS/FOPS cab with HVAC (ROPS ISO 3471 / FOPS
						SAE 3449 Level II)
						Low-profile Grade Pro cab with opening lower front and
						side windows Opening front and side windows (standard with Grade Pro)
					•	Key-less start with multiple security modes
					•	Fabric air-suspension seat with armrests and headrest
						Premium heated, leather/fabric, high-wide back, air-
						suspension seat with armrests (standard with Grade Pro)
						Sealed-switch module with function indicators
•	•	•	•	•	•	15-amp-peak converter (24 to 12 volt) with 2 power ports
						30-amp-peak converter (24 to 12 volt) with 2 power ports
•	•	٠	•	٠	٠	Electric rear-window defroster
•		•	•		•	Upper front and rear windshield washers with intermit-
						tent wipers
						Lower front intermittent wiper and washer
						Powered cab precleaner
٠	٠	٠	٠	٠	٠	Cooler/lunch-box storage with cup holder
						Decelerator pedal
						Flip-down, right- and/or left-hand cab beacon bracket
			٠			Cab prewired for beacon, radio, and auxiliary circuit
						Front window sun visor / retractable rear sunshade
						Rearview mirrors, exterior (2) (SAE J985)
						Heated outside mirrors (SAE J985)
						Rear retractable sunshade
						Fire extinguisher
						Rearview camera
•	•	•	•	•	•	Retractable seat belt, 76 mm (3 in.) (SAE 386)
						Radio, AM/FM weatherband with CD
	-	-	-	-		Electrical
					•	100-amp alternator
						130-amp alternator 150-amp alternator (available with IT4 engine only)
						Batteries (2), 1,400 CCA with 440-min. reserve capacity
						Batteries (2), 1,000 CCA with 180-min. reserve capacity
						Ground-level lockable electrical master disconnect switch
					•	Engine compartment service-check light
						Halogen grading lights (10)
						Deluxe halogen grading lights (16) with right-side cab
_	_	_	_	-	_	lights (18)
						Tall front snowplow light bar
٠	٠	٠	٠	٠	٠	Multifunction/multi-language diagnostic LCD color monitor
						Level 1 electronic corrosion-prevention package
•	•	•	٠	٠	•	Electric horn (SAE J1446)
						Reverse warning alarm (SAE J994)
٠		٠	٠	٠	٠	LED brake and turn lights
						Moldboard
٠	•	٠	٠	٠	٠	Quick-change and jackscrew-adjustable moldboard side-
						shift extreme-duty wear inserts
	•	•	•			Patented pre-stressed 3.66-m x 610-mm x 22-mm (12 ft.
•						x 24 in. x ⁷ / ⁸ in.), high strength, wear resistant

670	672	770	772	870	872	Moldboard (continued)
						Patented pre-stressed 3.66-m x 686-mm x 25-mm (12 ft. x 27 in. x 1 in.), high strength, wear resistant
						Patented pre-stressed 3.96-m x 686-mm x 25-mm (13 ft. x 27 in. x 1 in.), high strength, wear resistant
						Patented pre-stressed 4.27-m x 610-mm x 22-mm (14 ft.
						x 24 in. x 7 in.), high strength, wear resistant
				٠		Patented pre-stressed 4.27-m x 686-mm x 25-mm (14 ft.
						x 27 in. x 1 in.), high strength, wear resistant
						Patented pre-stressed 4.88-m x 686-mm x 25-mm (16 ft. x 27 in. x 1 in.), high strength, wear resistant
						610-mm (24 in.) left- or right-hand extensions for 610-mm (24 in.) moldboard
						610-mm (24 in.) left- or right-hand extensions for 686-mm
						(27 in.) moldboard
						Moldboard impact-absorption system
						Overall Vehicle
٠	٠	٠	۲	۲	٠	JDLink [®] Ultimate wireless communication system (available
-		-		-		in specific countries; see your dealer for details)
•	•	•	•	•	•	Ground-level fueling
						Fast-fill fuel system
•	•	•	•	•	•	Fluid-sampling ports for engine oil and coolant, hydraulic oil, and axle and transmission fluids
٠	٠	٠	٠	٠	٠	Vandal-protection locking for: Cab doors / Top tank radi-
						ator-access door / Engine coolant surge tank / Hydraulic
						reservoir cap / Battery-disconnect switch / Fuel-tank door
						and cap / Toolbox
•	•	•	•	•	•	Environmental drains with hoses for engine, transmission, hydraulic, differential fluids, and engine coolant
•	٠	٠	٠	٠	٠	Banked easy-access vertical spin-on filters for hydraulic,
						transmission, and axle fluids
						Engine rotary ejector precleaner
						Blade-impact-absorption system
						Front and/or rear wheel fenders
_						Quick-service bank for transmission, hydraulic, engine oil, and engine coolant fluid changes
						Secondary steering
						Sound-absorption package (EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II)
						Topcon grade-control base kit installed (GP only)
						Front Attachments
						Front push block
						V-type front scarifier with float position, 5 shanks
						Mid-mount scarifier with float position, 11 shanks
						Front Balderson-style lift group with float position
-				~		Rear Attachments
•	•	•	•	٠	•	Full bottom guard with access panel and side guards for rear vehicle protection
						Rear-mounted ripper/scarifier combination with rear hitch and pin, 3 ripper shanks
						Rear counterweight with rear hitch and pin
						Rear hitch and pin
						Extra scarifier shanks (9) with teeth for rear ripper scarifier
						Extra ripper shanks (2) with teeth for rear ripper/scarifier
_	-	_	_	_	_	

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions specified per ISO9249. No derating is required up to 3050-m (10,000 ft.) altitude. Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on units with standard equipment; 14.0. x 610-mm (24 in.) 12 PR G2, Bias tires and 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x ¹/s in.) high-strength, wear-resistant moldboards with 16-mm x 152-mm (0.63 in. x 6 in.) Dura-Max® through-hardened-steel cutting edges for the 670G, 672G, 770G, and 772G; and 175 R 635-mm (25 in.) L2, Radial tires, and 4.27-m x 688-mm x 25-mm (14 ft. x 27 in. x 1 in.) high-strength, wear-resistant moldboards with 16-mm x 152-mm (0.63 in. x 6 in.) Dura-Max through-hardened-steel cutting edges for the 870G and 872G. Weights include lubricants, coolants, full fuel tanks, and 79-kg (175 lb.) operators.

DKAGGDR Litho in U.S.A. (13-07)