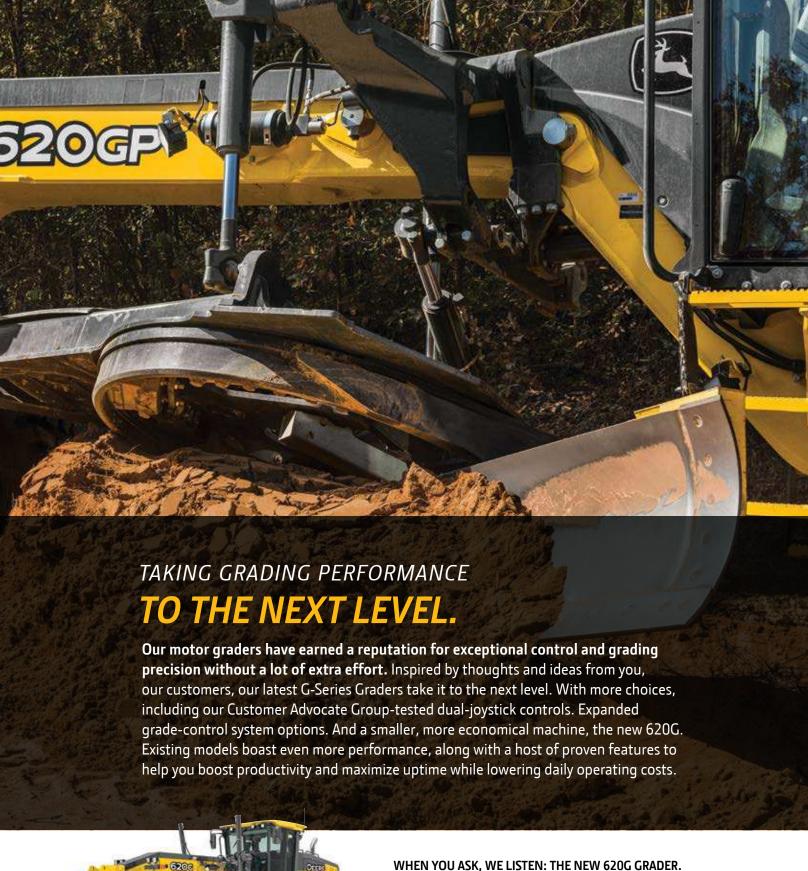
# G-SERIES 4WD MOTOR GRADERS









Our competitively priced 620G offers contractors, townships, and municipalities the grader they've been asking for, with just the right amount of power and fuel savings of up to 10 percent over our larger models. It's equipped — not stripped — with many of the same features found on its larger siblings, including a superior cooling package and ground-level service.

### RIGHT ON THE MONEY

#### ENHANCED PERFORMANCE, MORE OPTIONS, LOWER COST.

Boasting exceptional balance, improved performance specs, and more maximum capability, G-Series Graders help you do your level best — whether you're a major contractor, working for the county, or running a land-leveling crew.

#### Improved horsepower and torque

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

#### The right power for the job

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

#### Multipurpose for your multiple purposes

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

#### Save fuel with Eco mode

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

#### Grade-control system ready

Adding your preferred grade-control system is quick and noninvasive. Grade Pro (GP) models come factory equipped with bulkhead connectors, sensor mounts, electrical wiring harnesses, integrated controls, and universal moldboard-mast mounts. Factory-installed options on GP models now also include Leica as well as Topcon and Trimble.









## CHOICE OF CONTROLS:

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



#### SEISMIC SHIFT

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



#### CONTROL FREAK

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



#### AT YOUR COMMAND

Eight armrest-mounted, fingertipactuated controls, including lever steer, are arranged in the industry-standard pattern on each side of the standard steering wheel. No extra levers are required for grade control. Instead, knob-integrated push buttons provide convenient, fingertip activation. Our G-Series Graders give you more choice of how work gets done. On our GP models opt for new dual-joystick controls or choose state-of-the-art fingertip armrest controls. Or have the best of both worlds — a field kit allows you to easily swap between the two. Our G models offer conventional lever-operated controls. And based on customer feedback, all models still have a steering wheel. The choice is yours.

#### New joystick option

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

#### Fine control with less fatique

Articulation and circle-rotate functions are actuated using proportional roller switches instead of twisting the controller.

#### Return-to-straight

At the touch of a button, return-tostraight automatically straightens an articulated frame, for quicker work cycles.

#### Automated cross-slope

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

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# SIGHT FOR SORE EYES

## ENVISION MORE PRODUCTIVITY.

With their exceptional visibility, a new LCD high-visibility monitor, and smooth gate-less shifting, it's easy to see why G-Series Graders have become a favorite on a wide range of jobsites.

#### **Exceptional view**

All-around visibility is virtually unobstructed, with a clear view to the heel and toe, and behind the moldboard. You can even see the area beneath the front axle, for increased awareness of oncoming obstacles.

#### Store your stuff

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

#### Lighting the way

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

#### Easy-access park brake

Sealed-switch module provides push-button control of key machine functions, which now also include the parking brake, for more convenient access and easier operation.

### LCD hi-vis monitor streamlines access to vital data

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



## **SO MUCH TO DO,** SO LITTLE TIME

Uptime isn't everything. It's the only thing. Which is why G-Series Graders are loaded with durability-enhancing advantages that help deliver years of trouble-free service. When you know how they're built, you'll run these Deere.

### Robust, easy-to-clean cooling package

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

### Auto shutdown reduces fuel use and wear

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

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

Variable-speed hydraulically driven fan runs only as fast or as often as necessary to keep things cool. Helps conserve power and fuel, while reducing noise. Standard reversible fan (optional on 620G/GP) speeds core cleanout in high-debris applications.

#### Keep downtime down with

#### JOHN DEERE ULTIMATE UPTIME

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

#### Get valuable insight with

#### JOHN DEERE WORKSIGHT

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

#### Fast, simple ground-level access

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





GET IT DONE WITH EASE.







152 mm (6 in.)



Engine	620G/GP
Manufacturer and Model	John Deere PowerTech™ PSS 6.8L
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV
Cylinders	6
Displacement	6.8L (414 cu. in.)
Net Engine Power	0.02 (11 1 0.0 11.1)
Gear 1	112 kW (150 hp)
Gear 2	123 kW (165 hp)
Gear 3	134 kW (180 hp)
Gear 4	142 kW (190 hp)
Gear 5	149 kW (200 hp)
Gear 6	153 kW (205 hp)
Gear 7	157 kW (210 hp)
Gear 8	160 kW (215 hp)
Net Peak Torque	1005 Nm (741 lbft.)
Net Torque Rise	49%
Aspiration	Series turbocharged, charge-air cooled
Lubrication	Full-flow spin-on filter and integral cooler
Air Cleaner with Restriction Indicator	Dual element, dry
Cooling	
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	No tire slip at 2,180 rpm, 14.0-R24 tires
Gear 1	4.0 km/h (2.5 mph)
Gear 2	5.6 km/h (3.5 mph)
Gear 3	7.7 km/h (4.8 mph)
Gear 4	10.9 km/h (6.8 mph)
Gear 5	16.4 km/h (10.2 mph)
Gear 6	23.2 km/h (14.4 mph)
Gear 7	32.3 km/h (20.1 mph)
Gear 8	45.5 km/h (28.3 mph)
Front Axle	Heavy-duty welded fabrication
Oscillation (total)	32 deg.
Wheel Lean Angle (each direction)	20 deg.
Differentials	Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic differential lock
Steering (all models include	All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems
steering wheel)	on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) option
Turning Radius (front steer and articulation)	7.21 m (284 in.) (23 ft. 8 in.)
Articulation (both right and left)	22 deg.
Final Drives	Inboard-mounted planetary sealed in cooled, filtered oil
Brakes	Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both independent
	systems effective on all 4 tandem wheels
Primary and Secondary Brakes	Hydraulically actuated, inboard of tandem pivot, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 3450)
Parking Brake	Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)
Hydraulics	
Туре	Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump
Maximum Pump Flow	212 L/min. (56 gpm)
Maximum System Pressure	18 961 kPa (2,750 psi)
Pump Displacement	90 cm³ (5.5 cu. in.)

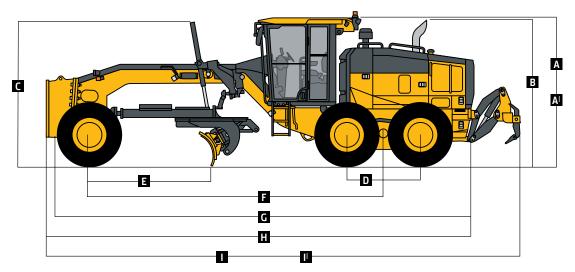
Blade Function	620G/GP
	ment of blade-function controls; includes float position; 7 discrete saddle positions
Blade Range	
Lift Above Ground	490 mm (19.3 in.)
Blade Side Shift (right or left)	683 mm (26.9 in.)
Pitch at Ground Line	
Forward	42 deg.
Back	5 deg.
Shoulder Reach Outside Wheels (frame straight, right or left)	2083 mm (82.0 in.) (6 ft. 10 in.)
Bank Cut Angle (right or left)	90 deg.
Blade Pull	
At Maximum Operating Weight	14 091 kg (31,066 lb.)
Electrical	
Solid-state load center and sealed-switch	
module	EPA Final Tier 4/EU Stage IV
Voltage	24 volt
Number of Batteries	2
Battery Capacity	1,400 CCA
Reserve Capacity	440 min.
Amp-Hour Rating	224 amp-hour
Alternator Rating	
Base	130 amp
Optional	200 amp
Lights	Driving <sup>'</sup> 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	State and nazara warming rights
Туре	Welded box construction
Width (minimum)	307 mm (12.1 in.)
Height (minimum)	307 mm (12.1 in.)
Thickness	55
Side	16 mm (0.63 in.)
Top and Bottom Plate	23 mm (0.89 in.)
Modulus	-5 ····· (CIGS ····)
Minimum Vertical Section	1445 cm³ (88 cu. in.)
Average Vertical Section at Saddle	2245 cm³ (137 cu. in.)
Draft Frame (drawbar)	22 15 cm (157 cd. m.)
·	ness with double ball-and-socket pivot connection equipped with quick-change replaceable wear inserts
Circle	ness with double but and societ prior connection equipped with quark change replaceable wear inserts
	ned for flatness, equipped with quick-change replaceable wear inserts
Circle Diameter	1524 mm (60 in.)
Rotation	360 deg.
Drive	Hydraulic motor and worm gear with positive lock
Circle Side Shift (right and left)	787 mm (31 in.)
Moldboard	707 mm (51 m.)
	ngth; wear-resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change
replaceable wear inserts and quick-adjust ja	
Base Length	3.66 m (144 in.) (12 ft. 0 in.)
Height (measured along arc, including	610 mm (24 in.)
cutting edge)	010 mm (2 1 mg
Thickness	22 mm (0.88 in.)
Cutting Edge	22 mm (v.vv m.)
Dura-Max™ through-hardened steel edge	
Thickness	16 mm (0.62 in.)
Width	10 IIIII (0.02 III.)

Courtesy of Machine.Market

Scarifiers	620G/GP	
	Front	Mid-mount
Туре	V-type toolbar with manual 2-pitch positions and	Radial linkage, with NeverGrease™ pin joints; V-type
	hydraulic float	manual 3-pitch positions and hydraulic float
Width of Cut	1.20 m (48 in.) (4 ft. 0 in.)	1.19 m (46.7 in.) (3 ft. 11 in.)
Number of Shanks/Teeth	5 (maximum capacity 9)	11
Lift Above Ground	589 mm (23.2 in.)	335 mm (13.2 in.)
Maximum Depth	335 mm (13.2 in.)	325 mm (12.8 in.)
Shank	333 mm (13.2 m.)	323 mm (12.0 m.)
Spacing	146 mm (5.75 in.)	117 mm (4.6 in.)
	, ,	
Size	25 x 76 mm (1 x 3 in.)	26 x 76 mm (1 x 3 in.)
Front Lift Group (Balderson-style)		
Parallel linkage, mechanical pins, and hydraul	ic float	
Lift		
Above Ground (top of tube)	1864 mm (73.4 in.)	
Range	988 mm (38.9 in.)	
Rear Ripper/Scarifier	, ,	
Parallel linkage, with NeverGrease pin joints,	hydraulic float, and integrated hitch	
. a.aa. minage, with Never Grease pin Joints,	Ripper	Scarifier
Width of Cut	2.21 m (87.2 in.) (7 ft. 3 in.)	2.18 m (86 in.) (7 ft. 2 in.)
	, , ,	
Number of Shanks/Teeth	3 (maximum capacity 5)	None standard (maximum capacity 9)
Lift Above Ground	602 mm (23.7 in.)	810 mm (31.9 in.)
Maximum Depth	426 mm (16.8 in.)	323 mm (12.7 in.)
Force at Typical FT4 Weight		
Penetration	9296 kg (20,494 lb.)	_
Pry-Out	11 222 kg (24,740 lb.)	_
Shank Size	61.5 x 133 mm (2.42 x 5.25 in.)	25 x 76 mm (1 x 3 in.)
Operator Station		
Low-profile cab with ROPS (ISO 3471-2008) a	nd FOPS (ISO 3449-2005)	
Tires/Wheels	110 1 5 (150 5445-2005)	
Tiles/ Wileels	1/02/ 25/ /10 :- 10:	17 FD2F 2FC (1/ :   D:
	14R24 on 254-mm (10 in.) Rim	17.5R25 on 356-mm (14 in.) Rim
Wheel Tread on Ground	2.08 m (82.0 in.)	2.16 m (85.0 in.)
Overall Width	2.49 m (98.0 in.)	2.64 m (104.0 in.)
Ground Clearance (front axle)	587 mm (23.1 in.)	587 mm (23.1 in.)
Serviceability		
•	EPA Final Tier 4/EU Stage IV	
Serviceability Refill Capacities Fuel Tank	EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.)	
Refill Capacities Fuel Tank	416.5 L (110 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank	416.5 L (110 gal.) 22.5 L (6 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System	416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter	416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid	416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing	416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each)	416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	
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Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each)	416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir	416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights	416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x	416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard	416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting	416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	
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Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14-24 Bias L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment	416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)  EPA Final Tier 4/EU Stage IV 4178 kg (9,210 lb.) 11 567 kg (25,500 lb.) 15 744 kg (34,710 lb.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14-24 Bias 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	416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)  EPA Final Tier 4/EU Stage IV 4178 kg (9,210 lb.) 11 567 kg (25,500 lb.) 15 744 kg (34,710 lb.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14-24 Bias L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment	416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)  EPA Final Tier 4/EU Stage IV 4178 kg (9,210 lb.) 11 567 kg (25,500 lb.) 15 744 kg (34,710 lb.)	

Option Weights	620G/GP
Moldboards with Through-Hardened Dura-Max	
Cutting Edge	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x $\frac{7}{8}$ in.)	0 kg (0 lb.)
with 152-mm x 16-mm (6 in. x 5/8 in.) cutting edge	
and 16-mm (5/8 in.) hardware	/ E. L. (00 III.)
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x $\frac{7}{8}$ in.)	45 kg (99 lb.)
with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge and 16-mm ( <sup>5</sup> / <sub>8</sub> in.) hardware	
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	103 kg (231 lb.)
and 16-mm (5/8 in.) hardware	
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)	157.4 kg (347 lb.)
with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> 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	116 kg (255 lb.)
Overlay End Bits, Reversible (one pair)	
For 152-mm (6 in.) Cutting Edge	19.5 kg (43 lb.)
For 203-mm (8 in.) Cutting Edge	23 kg (51 lb.)
Circle-Drive Slip Clutch	9 kg (20 lb.)
Moldboard Impact-Absorption System	43 kg (95 lb.)
Ripper/Scarifier, Rear Mounted with Hitch and	1139 kg (2,510 lb.)
Ripper Shanks (3)	COL (150H-)
Scarifier Shanks with Teeth (9 for rear ripper/scarifier)	68 kg (150 lb.)
Rear Counterweight with Integral Rear Hitch Rear Hitch	727 kg (1,603 lb.)
Push Block. Front	54.4 kg (120 lb.) 907 kg (2,000 lb.)
Scarifier	307 kg (2,000 lb.)
Front Mount with Teeth (5)	831 kg (1,833 lb.)
Mid-Mount with Teeth (11)	1481 kg (3,265 lb.)
Front Lift Group (Balderson-style)	763 kg (1,682 lb.)
Machine Dimensions	
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
A <sup>I</sup> Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)
<b>B</b> Height to Top of Exhaust	3.10 m (10 ft. 2 in.)
C Height to Top of Blade-Lift Cylinders	3.05 m (10 ft. 0 in.)
D Tandem Axle Spacing	1.54 m (5 ft. 1 in.)
E Blade Base	2.57 m (8 ft. 5 in.)

Option Weights (continued)	620G/GP
Tires	
14.00-24, 12 PR G2	0 kg (0 lb.)
17.5-25, 12 PR G2/L2	114 kg (252 lb.)
14.00-R24, Radial, G2/L2 General Purpose	220 kg (486 lb.)
14.00-R24, Radial, G2/L2 Snow	261 kg (576 lb.)
17.5-R25, Radial, L2 General Purpose	272 kg (600 lb.)
17.5-R25, Radial, G2/L2 Snow	316 kg (696 lb.)
17.5-R25, Radial, G3/L3 General Purpose	362 kg (798 lb.)
1-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 kg (144 lb.)
Multi-Piece Rims	<u> </u>
254 mm x 610 mm (10 in. x 24 in.)	180 kg (396 lb.)
356 mm x 635 mm (14 in. x 25 in.)	267 kg (588 lb.)
Fenders	<u> </u>
Front	77 kg (169 lb.)
Rear	141 kg (310 lb.)
Low Cab with Opening Front and Side Windows	14.5 kg (32 lb.)
Premium Air-Suspension, Heated Seat with Adjust-	13 kg (28 lb.)
able Arm- and Headrests	
Coolant Heater	4 kg (9 lb.)
Quick Service	11 kg (24 lb.)
Secondary Steering	26 kg (58 lb.)
Beacon Bracket	8 kg (18 lb.)
Fire Extinguisher	14.5 kg (32 lb.)
Lighting Packages	
10 Halogen Lights	4.5 kg (10 lb.)
16 Halogen Lights	7 kg (16 lb.)
18 Halogen Lights	8 kg (18 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	7 kg (15 lb.)
Hydraulics for Front-Mounted Equipment	9 kg (19 lb.)
Machine Dimensions (continued)	
F Wheelbase	6.16 m (20 ft. 3 in.)
G Overall Length	8.89 m (29 ft. 2 in.)
H Overall Length with Scarifier	9.69 m (31 ft. 9 in.)
Overall Length with Push Block and Ripper	9.99 m (32 ft. 9 in.)
I Overall Length with Scarifier and Ripper	10.59 m (34 ft. 9 in.
For Overall Width see Tires/Wheels on page 16.	, ,
To overall what is see they wheels on page 16.	





## SPECIFICATIONS



152 mm (6 in.)



Engine	670G/GP			
Manufacturer and Model	John Deere PowerTech™ PSS 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech Plus 6.8L	John Deere PowerTech™ 6.8
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II
Cylinders	6	6	6	6
Displacement Displacement	9.0L (548 cu. in.)	9.0L (548 cu. in.)	6.8L (414 cu. in.)	6.8L (414 cu. in.)
Net Engine Power				
Gear 1	127 kW (170 hp)	123 kW (165 hp)	116 kW (155 hp)	116 kW (155 hp)
Gear 2	138 kW (185 hp)	134 kW (180 hp)	119 kW (160 hp)	119 kW (160 hp)
Gear 3	149 kW (200 hp)	146 kW (195 hp)	131 kW (175 hp)	131 kW (175 hp)
Gear 4	157 kW (210 hp)	153 kW (205 hp)	138 kW (185 hp)	134 kW (180 hp)
Gear 5	160 kW (215 hp)	157 kW (210 hp)	142 kW (190 hp)	138 kW (185 hp)
Gear 6	168 kW (225 hp)	164 kW (220 hp)	146 kW (195 hp)	138 kW (185 hp)
Gear 7	172 kW (230 hp)	168 kW (225 hp)	149 kW (200 hp)	138 kW (185 hp)
Gear 8	175 kW (235 hp)	172 kW (230 hp)	153 kW (205 hp)	138 kW (185 hp)
	1230 Nm (907 lbft.)	1204 Nm (888 lbft.)	915 Nm (675 lbft.)	831 Nm (613 lbft.)
Net Peak Torque	,		•	, ,
Net Torque Rise	63%	63%	42%	44%
Aspiration	Series turbocharged, charge- air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled
Lubrication	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler
Air Cleaner with Restriction Indicator	Dual element, dry	Dual element, dry	Dual element, dry	Dual element, dry
Cooling				
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			
	transmission reservoir with se	parate filtration and cooling sys	tem with 117-L/min. (31 gpm)	gear pump
Gears	transmission reservoir with se	parate filtration and cooling sys	tem with 117-L/min. (31 gpm)	gear pump
Gears Forward	transmission reservoir with se	parate filtration and cooling sys	tem with 117-L/min. (31 gpm)	gear pump
		parate filtration and cooling sys	tem with 117-L/min. (31 gpm)	gear pump
Forward	8	3 7	tem with 117-L/min. (31 gpm)	gear pump
Forward Reverse	8 8	3 7	tem with 117-L/min. (31 gpm)	gear pump
Forward Reverse Maximum Travel Speeds	8 8 No tire slip at 2,180 rpm, 14.0 4.0 km/h (2.5 mph)	3 7	tem with 117-L/min. (31 gpm)	gear pump
Forward Reverse <b>Maximum Travel Speeds</b> Gear 1 Gear 2	8 8 No tire slip at 2,180 rpm, 14.0 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph)	3 7	tem with 117-L/min. (31 gpm)	gear pump
Forward Reverse <b>Maximum Travel Speeds</b> Gear 1 Gear 2 Gear 3	8 8 No tire slip at 2,180 rpm, 14.0 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 7.7 km/h (4.8 mph)	3 7	tem with 117-L/min. (31 gpm)	gear pump
Forward Reverse <b>Maximum Travel Speeds</b> Gear 1 Gear 2 Gear 3 Gear 4	8 8 No tire slip at 2,180 rpm, 14.0 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)	3 7	tem with 117-L/min. (31 gpm)	gear pump
Forward Reverse <b>Maximum Travel Speeds</b> Gear 1 Gear 2 Gear 3 Gear 4 Gear 5	8 8 No tire slip at 2,180 rpm, 14.0 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)	3 7	tem with 117-L/min. (31 gpm)	gear pump
Forward Reverse Maximum Travel Speeds Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6	8 8 No tire slip at 2,180 rpm, 14.0 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)	3 7	tem with 117-L/min. (31 gpm)	gear pump
Forward Reverse  Maximum Travel Speeds Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7	8 8 No tire slip at 2,180 rpm, 14.0 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)	3 7	tem with 117-L/min. (31 gpm)	gear pump
Forward Reverse  Maximum Travel Speeds Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8	8 8 No tire slip at 2,180 rpm, 14.0 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)	D-R24 tires	tem with 117-L/min. (31 gpm)	gear pump
Forward Reverse  Maximum Travel Speeds Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle	8  No tire slip at 2,180 rpm, 14.0 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	D-R24 tires	tem with 117-L/min. (31 gpm)	gear pump
Forward Reverse  Maximum Travel Speeds Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle Oscillation (total)	8  No tire slip at 2,180 rpm, 14.0 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 32 deg.	D-R24 tires	tem with 117-L/min. (31 gpm)	gear pump
Forward Reverse  Maximum Travel Speeds  Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle Oscillation (total) Wheel Lean Angle (each direction)	8  No tire slip at 2,180 rpm, 14.0 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 32 deg. 20 deg.	D-R24 tires		
Forward Reverse  Maximum Travel Speeds  Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle Oscillation (total) Wheel Lean Angle (each direction)  Differentials	8  No tire slip at 2,180 rpm, 14.0 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 32 deg. 20 deg. Spiral bevel; hydraulically actu	n ated, clutch type can be applied	on-the-go; selectable manual	or automatic differential lock
Forward Reverse  Maximum Travel Speeds  Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials  Steering (all models include steering wheel)	8 8 No tire slip at 2,180 rpm, 14.0 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 32 deg. 20 deg. Spiral bevel; hydraulically actu All-hydraulic power-frame artion firm ground, and increases	D-R24 tires	on-the-go; selectable manual productivity; crab steering redu	or automatic differential lock ces side drift, positions tanden
Forward Reverse  Maximum Travel Speeds  Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle Oscillation (total) Wheel Lean Angle (each direction)  Differentials  Steering (all models include	8  No tire slip at 2,180 rpm, 14.0 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 32 deg. 20 deg. Spiral bevel; hydraulically actu	n ated, clutch type can be applied culation for maneuverability and	on-the-go; selectable manual productivity; crab steering redu	or automatic differential lock ces side drift, positions tanden
Forward Reverse  Maximum Travel Speeds  Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle Oscillation (total) Wheel Lean Angle (each direction)  Differentials  Steering (all models include steering wheel) Turning Radius (front steer and articulation)	8  No tire slip at 2,180 rpm, 14.0 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 32 deg. 20 deg. Spiral bevel; hydraulically actu All-hydraulic power-frame artic on firm ground, and increases 7.21 m (284 in.) (23 ft. 8 in.)	n ated, clutch type can be applied culation for maneuverability and	on-the-go; selectable manual productivity; crab steering redu	or automatic differential lock ces side drift, positions tanden
Forward Reverse  Maximum Travel Speeds  Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle Oscillation (total) Wheel Lean Angle (each direction)  Differentials  Steering (all models include steering wheel) Turning Radius (front steer and articulation)  Articulation (both right and left)	8  No tire slip at 2,180 rpm, 14.0 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 32 deg. 20 deg. Spiral bevel; hydraulically actu All-hydraulic power-frame artic on firm ground, and increases 7.21 m (284 in.) (23 ft. 8 in.)	n ated, clutch type can be applied ulation for maneuverability and side-slope stability; return-to-s	on-the-go; selectable manual productivity; crab steering redu	or automatic differential lock ces side drift, positions tanden
Forward Reverse  Maximum Travel Speeds  Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle Oscillation (total) Wheel Lean Angle (each direction)  Differentials  Steering (all models include steering wheel) Turning Radius (front steer and articulation)	8 8 No tire slip at 2,180 rpm, 14.0 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 32 deg. 20 deg. Spiral bevel; hydraulically actu All-hydraulic power-frame artic on firm ground, and increases 7.21 m (284 in.) (23 ft. 8 in.) 22 deg. Inboard-mounted planetary se Foot-controlled, hydraulically	ated, clutch type can be applied culation for maneuverability and side-slope stability; return-to-sided in cooled, filtered oil operated, multiple wet-disc brak	on-the-go; selectable manual productivity; crab steering redu traight control included in Grad	or automatic differential lock ces side drift, positions tanden de Pro (GP) option
Forward Reverse  Maximum Travel Speeds  Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle  Oscillation (total) Wheel Lean Angle (each direction) Differentials  Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left)  Final Drives  Brakes	8 No tire slip at 2,180 rpm, 14.0 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 32 deg. 20 deg. Spiral bevel; hydraulically actu All-hydraulic power-frame articon firm ground, and increases 7.21 m (284 in.) (23 ft. 8 in.) 22 deg. Inboard-mounted planetary se Foot-controlled, hydraulically systems effective on all 4 tand	ated, clutch type can be applied culation for maneuverability and side-slope stability; return-to-sided in cooled, filtered oil operated, multiple wet-disc brakem wheels	on-the-go; selectable manual productivity; crab steering redu traight control included in Grad	or automatic differential lock ces side drift, positions tanden de Pro (GP) option d, filtered oil; both independer
Forward Reverse  Maximum Travel Speeds  Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle  Oscillation (total) Wheel Lean Angle (each direction) Differentials  Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left)  Final Drives  Brakes	8 8 No tire slip at 2,180 rpm, 14.0 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 32 deg. 20 deg. Spiral bevel; hydraulically actu All-hydraulic power-frame artic on firm ground, and increases 7.21 m (284 in.) (23 ft. 8 in.) 22 deg. Inboard-mounted planetary se Foot-controlled, hydraulically systems effective on all 4 tand Hydraulically actuated, inboard	ated, clutch type can be applied culation for maneuverability and side-slope stability; return-to-sided in cooled, filtered oil operated, multiple wet-disc brakem wheels d of tandem pivot, self-adjusting	on-the-go; selectable manual productivity; crab steering redu traight control included in Grad ses sealed in pressurized, coole g, sealed in cooled and filtered	or automatic differential lock ces side drift, positions tanden de Pro (GP) option d, filtered oil; both independer
Forward Reverse  Maximum Travel Speeds  Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left) Final Drives Brakes  Primary and Secondary Brakes Parking Brake	8 8 No tire slip at 2,180 rpm, 14.0 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 32 deg. 20 deg. Spiral bevel; hydraulically actu All-hydraulic power-frame artic on firm ground, and increases 7.21 m (284 in.) (23 ft. 8 in.) 22 deg. Inboard-mounted planetary se Foot-controlled, hydraulically systems effective on all 4 tand Hydraulically actuated, inboard	ated, clutch type can be applied culation for maneuverability and side-slope stability; return-to-sided in cooled, filtered oil operated, multiple wet-disc brakem wheels	on-the-go; selectable manual productivity; crab steering redu traight control included in Grad ses sealed in pressurized, coole g, sealed in cooled and filtered	or automatic differential lock ces side drift, positions tanden de Pro (GP) option d, filtered oil; both independer
Forward Reverse  Maximum Travel Speeds  Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle  Oscillation (total) Wheel Lean Angle (each direction)  Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left)  Final Drives  Brakes  Primary and Secondary Brakes Parking Brake  Hydraulics	8 8 No tire slip at 2,180 rpm, 14.0 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 32 deg. 20 deg. Spiral bevel; hydraulically actu All-hydraulic power-frame artic on firm ground, and increases 7.21 m (284 in.) (23 ft. 8 in.) 22 deg. Inboard-mounted planetary se Foot-controlled, hydraulically systems effective on all 4 tand Hydraulically actuated, inboar Automatically spring applied,	ated, clutch type can be applied ulation for maneuverability and side-slope stability; return-to-sided in cooled, filtered oil operated, multiple wet-disc brakem wheels d of tandem pivot, self-adjusting hydraulically released, oil cooled	on-the-go; selectable manual productivity; crab steering redu traight control included in Grad ses sealed in pressurized, coole g, sealed in cooled and filtered d, self-adjusting (ISO 3450)	or automatic differential lock ces side drift, positions tanden de Pro (GP) option d, filtered oil; both independer oil, multi-disc (ISO 3450)
Forward Reverse  Maximum Travel Speeds  Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left) Final Drives Brakes  Primary and Secondary Brakes Parking Brake Hydraulics Type	8 8 No tire slip at 2,180 rpm, 14.0 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 32 deg. 20 deg. Spiral bevel; hydraulically actu All-hydraulic power-frame artic on firm ground, and increases 7.21 m (284 in.) (23 ft. 8 in.) 22 deg. Inboard-mounted planetary se Foot-controlled, hydraulically systems effective on all 4 tand Hydraulically actuated, inboar Automatically spring applied,	ated, clutch type can be applied culation for maneuverability and side-slope stability; return-to-sided in cooled, filtered oil operated, multiple wet-disc brakem wheels d of tandem pivot, self-adjusting	on-the-go; selectable manual productivity; crab steering redu traight control included in Grad ses sealed in pressurized, coole g, sealed in cooled and filtered d, self-adjusting (ISO 3450)	or automatic differential lock ces side drift, positions tanden de Pro (GP) option d, filtered oil; both independer oil, multi-disc (ISO 3450)
Forward Reverse  Maximum Travel Speeds  Gear 1 Gear 2 Gear 3 Gear 4 Gear 5 Gear 6 Gear 7 Gear 8  Front Axle  Oscillation (total) Wheel Lean Angle (each direction)  Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left)  Final Drives  Brakes  Primary and Secondary Brakes Parking Brake  Hydraulics	8 8 No tire slip at 2,180 rpm, 14.0 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 32 deg. 20 deg. Spiral bevel; hydraulically actu All-hydraulic power-frame artic on firm ground, and increases 7.21 m (284 in.) (23 ft. 8 in.) 22 deg. Inboard-mounted planetary se Foot-controlled, hydraulically systems effective on all 4 tand Hydraulically actuated, inboar Automatically spring applied,	ated, clutch type can be applied ulation for maneuverability and side-slope stability; return-to-sided in cooled, filtered oil operated, multiple wet-disc brakem wheels d of tandem pivot, self-adjusting hydraulically released, oil cooled	on-the-go; selectable manual productivity; crab steering redu traight control included in Grad ses sealed in pressurized, coole g, sealed in cooled and filtered d, self-adjusting (ISO 3450)	or automatic differential lock ces side drift, positions tanden de Pro (GP) option d, filtered oil; both independer oil, multi-disc (ISO 3450)

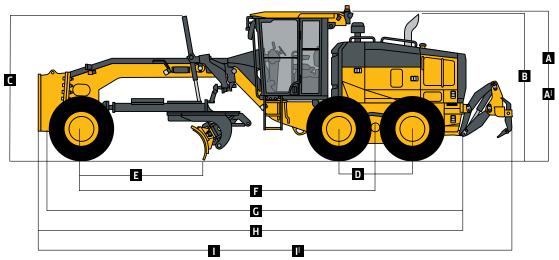
Blade Function	670G/GP		
	ment of blade-function controls; includes float po	osition; 7 discrete saddle positions	
Blade Range			
Lift Above Ground	490 mm (19.3 in.)		
Blade Side Shift (right or left)	683 mm (26.9 in.)		
Pitch at Ground Line			
Forward	42 deg.		
Back	5 deg.		
Shoulder Reach Outside Wheels (frame straight, right or left)	2083 mm (82.0 in.) (6 ft. 10 in.)		
Bank Cut Angle (right or left)	90 deg.		
Blade Pull			
At Maximum Operating Weight	15 501 kg (34,173 lb.)		
Electrical			
Solid-state load center and sealed-switch			
module	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II	
Voltage	24 volt	24 volt	
Number of Batteries	2	2	
Battery Capacity	1,400 CCA	1,400 CCA	
Reserve Capacity	440 min.	440 min.	
Amp-Hour Rating	224 amp-hour	224 amp-hour	
Alternator Rating	- F	· F · · ·	
Base	130 amp	100 amp	
Optional	200 amp	130 amp	
Lights	Driving lights; 2 high- and 2 low-beam haloge	n 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 cm³ (88 cu. in.)		
Average Vertical Section at Saddle	2245 cm³ (137 cu. in.)		
Draft Frame (drawbar)			
	ness with double ball-and-socket pivot connectio	n equipped with quick-change replaceable wear inserts	
Circle			
Welded construction, heat-treated, machin	ied for flatness, equipped with quick-change repla	aceable wear inserts	
Circle Diameter	1524 mm (60 in.)		
Rotation	360 deg.		
Drive	Hydraulic motor and worm gear with positive	lock	
Circle Side Shift (right and left)	787 mm (31 in.)		
Moldboard			
High-strength, pre-stressed for higher stre	ngth; wear-resistant, high-carbon steel and revers	sible end bits; blade side-shift wear system includes quick-change	
replaceable wear inserts and quick-adjust j		•	
Base Length	3.66 m (144 in.) (12 ft. 0 in.)		
Height (measured along arc, including	610 mm (24 in.)		
cutting edge)			
Thickness	22 mm (0.88 in.)		
Cutting Edge			
Dura-Max™ through-hardened steel edge			
Thickness	16 mm (0.62 in.)		
Width	152 mm (6 in )		

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Courtesy of Machine.Market

Scarifiers	670G/GP			
	Front		Mid-mount	
Туре	V-type toolbar with manual 2-pitch positions and		Radial linkage, with NeverGrease™ pin joints; V-type	
	hydraulic float		manual 3-pitch positions and hydraulic float	
Width of Cut	1.20 m (48 in.) (4 ft. 0 in.)		1.19 m (46.7 in.) (3 ft. 11 in.)	
Number of Shanks/Teeth	5 (maximum capacity 9)		11	
Lift Above Ground	589 mm (23.2 in.)		335 mm (13.2 in.)	
Maximum Depth	335 mm (13.2 in.)		325 mm (12.8 in.)	
Shank	333 mm (13.2 m.)		323 mm (12.0 m.)	
Spacing	146 mm (5.75 in.)		117 mm (4.6 in.)	
Size	25 x 76 mm (1 x 3 in.)		26 x 76 mm (1 x 3 in.)	
	25 X /6 mm (1 X 3 In.)		26 x /6 mm (1 x 3 in.)	
Front Lift Group (Balderson-style)	le Co			
Parallel linkage, mechanical pins, and hydrau	lic float			
Lift				
Above Ground (top of tube)	1864 mm (73.4 in.)			
Range	988 mm (38.9 in.)			
Rear Ripper/Scarifier				
Parallel linkage, with NeverGrease pin joints,	hydraulic float, and integrated hitch			
	Ripper		Scarifier	
Width of Cut	2.21 m (87.2 in.) (7 ft. 3 in.)		2.18 m (86 in.) (7 ft. 2 in.)	
Number of Shanks/Teeth	3 (maximum capacity 5)		None standard (maximum capacity 9)	
Lift Above Ground	602 mm (23.7 in.)		810 mm (31.9 in.)	
Maximum Depth	426 mm (16.8 in.)		323 mm (12.7 in.)	
Force at Typical FT4 Weight	720 AIIII (10.0 III.)		323 mm (12.7 m.)	
	0E20 km /20 087 lb \			
Penetration	9520 kg (20,987 lb.)		_	
Pry-Out	12 544 kg (27,656 lb.)		— 25. 76. (1. 2: )	
Shank Size	61.5 x 133 mm (2.42 x 5.25 in.)		25 x 76 mm (1 x 3 in.)	
Operator Station				
Low-profile cab with ROPS (ISO 3471-2008) a	and FOPS (ISO 3449-2005)			
Tires/Wheels				
	14R24 on 254-mm (10 in.) Rim		17.5R25 on 356-mm (14 in.) Rim	
Wheel Tread on Ground	2.08 m (82.0 in.)		2.16 m (85.0 in.)	
Overall Width	2.49 m (98.0 in.)		2.64 m (104.0 in.)	
Ground Clearance (front axle)	587 mm (23.1 in.)		587 mm (23.1 in.)	
Serviceability	,			
		EDA T: 2/EU CI -	and EDA Tion 2/EU Stage II	
Jet riccubility	FPA Final Tier 4/FU Stage IV	FPA HPT 3/FU STAC	IP IIIA UIIU FPA TIPI ZZFU SIUUP II	
•	EPA Final Tier 4/EU Stage IV		ge IIIA and EPA Tier 2/EU Stage II  6.81. engine	
Refill Capacities	9.0L engine	9.0L engine	6.8L engine	
Refill Capacities Fuel Tank	9.0L engine 416.5 L (110 gal.)	9.0L engine 416.5 L (110 gal.)		
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.)	9.0L engine 416.5 L (110 gal.) —	6.8L engine 416.5 L (110 gal.) —	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14-24 Bias L2 Tires, and 79-kg (175 lb.)	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14-24 Bias L2 Tires, and 79-kg (175 lb.) Operator	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14-24 Bias L2 Tires, and 79-kg (175 lb.) Operator Front	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14-24 Bias L2 Tires, and 79-kg (175 lb.) Operator	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14-24 Bias L2 Tires, and 79-kg (175 lb.) Operator Front	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x <sup>5</sup> / <sub>8</sub> in.) Cutting Edges, 14-24 Bias L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x <sup>5</sup> / <sub>8</sub> in.) Cutting Edges, 14-24 Bias L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x <sup>5</sup> / <sub>8</sub> in.) Cutting Edges, 14-24 Bias L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x <sup>5</sup> / <sub>8</sub> in.) Cutting Edges, 14-24 Bias L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14-24 Bias 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	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)  EPA Final Tier 4/EU Stage IV 4178 kg (9,210 lb.) 11 798 kg (26,010 lb.) 15 976 kg (35,220 lb.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)  EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage III 4191 kg (9,240 lb.) 11 149 kg (24,580 lb.) 15 340 kg (33,820 lb.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14-24 Bias 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 Rear	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)  EPA Final Tier 4/EU Stage IV 4178 kg (9,210 lb.) 11 798 kg (26,010 lb.) 15 976 kg (35,220 lb.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)  EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage III 4191 kg (9,240 lb.) 11 149 kg (24,580 lb.) 15 340 kg (33,820 lb.)  5479 kg (12,080 lb.) 12 887 kg (28,410 lb.)	
Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14-24 Bias 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	9.0L engine 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)  EPA Final Tier 4/EU Stage IV 4178 kg (9,210 lb.) 11 798 kg (26,010 lb.) 15 976 kg (35,220 lb.)	9.0L engine 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	6.8L engine 416.5 L (110 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)  EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage III 4191 kg (9,240 lb.) 11 149 kg (24,580 lb.) 15 340 kg (33,820 lb.)	

Option Weights	670G/GP
Moldboards with Through-Hardened Dura-Max	
Cutting Edge	
$3.66 \text{ m x } 610 \text{ mm x } 22 \text{ mm } (12 \text{ ft. x } 24 \text{ in. x } \frac{7}{8} \text{ in.})$	0 kg (0 lb.)
with 152-mm x 16-mm (6 in. x $5/8$ in.) cutting edge	
and 16-mm (⁵∕₃ in.) hardware	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)	45 kg (99 lb.)
with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge	
and 16-mm (5/8 in.) hardware	1261 (2771)
3.66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.)	126 kg (277 lb.)
with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge	
and 16-mm (5/8 in.) hardware	1001 (2001)
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 <sup>3</sup> / <sub>4</sub> 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.)	10E ka (221 lb )
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/8 in.) with 152-mm x 16-mm (6 in. x 5/8 in.) cutting edge	105 kg (231 lb.)
and 16-mm (5/8 in.) hardware	
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)	157.4 kg (347 lb.)
with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge	137.1 kg (317 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	
Extensions, 610 mm (2 ft.) (right or left)	
For Use with 610-mm (24 in.) Moldboards	116 kg (255 lb.)
For Use with 686-mm (27 in.) Moldboards	120 kg (265 lb.)
Overlay End Bits, Reversible (one pair)	
For 152-mm (6 in.) Cutting Edge	19.5 kg (43 lb.)
For 203-mm (8 in.) Cutting Edge	23 kg (51 lb.)
Heavy-Duty Dual-Input Circle-Drive Gearbox	14 kg (31 lb.)
Circle-Drive Slip Clutch	9 kg (20 lb.)
Moldboard Impact-Absorption System	43 kg (95 lb.)
Ripper/Scarifier, Rear Mounted with Hitch and	1139 kg (2,510 lb.)
Ripper 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 kg (1,603 lb.)
Rear Hitch	54.4 kg (120 lb.)
Push Block, Front	1338 kg (2,950 lb.)
Machine Dimensions	
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
A Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)
B Height to Top of Exhaust	3.10 m (10 ft. 2 in.)
C Height to Top of Blade-Lift Cylinders	3.05 m (10 ft. 0 in.)
D Tandem Axle Spacing	1.54 m (5 ft. 1 in.)
E Blade Base	2.57 m (8 ft. 5 in.)

Option Weights (continued)	670G/GP
Scarifier	
Front Mount with Teeth (5)	831 kg (1,833 lb.)
Mid-Mount with Teeth (11)	1481 kg (3,265 lb.
Front Lift Group (Balderson-style)	763 kg (1,682 lb.)
Tires	
14.00-24, 12 PR G2	0 kg (0 lb.)
17.5-25, 12 PR G2/L2	114 kg (252 lb.)
14.00-R24, Radial, G2/L2 General Purpose	220 kg (486 lb.)
14.00-R24, Radial, G2/L2 Snow	261 kg (576 lb.)
17.5-R25, Radial, L2 General Purpose	272 kg (600 lb.)
17.5-R25, Radial, G2/L2 Snow	316 kg (696 lb.)
17.5-R25, Radial, G3/L3 General Purpose	362 kg (798 lb.)
1-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 kg (144 lb.)
Multi-Piece Rims	<b>J</b>
254 mm x 610 mm (10 in. x 24 in.)	180 kg (396 lb.)
356 mm x 635 mm (14 in. x 25 in.)	267 kg (588 lb.)
Fenders	<b>3</b>
Front	77 kg (169 lb.)
Rear	141 kg (310 lb.)
Low Cab with Opening Front and Side Windows	14.5 kg (32 lb.)
Premium Air-Suspension, Heated Seat with Adjust-	13 kg (28 lb.)
able Arm- and Headrests	3
Coolant Heater	4 kg (9 lb.)
Quick Service	11 kg (24 lb.)
Sound-Absorption Package (machines equipped with	14 kg (31 lb.)
Tier 3/Stage IIIA and Tier 2/Stage II engines only)	•
Secondary Steering	26 kg (58 lb.)
Beacon Bracket	8 kg (18 lb.)
Fire Extinguisher	14.5 kg (32 lb.)
Lighting Packages	
10 Halogen Lights	4.5 kg (10 lb.)
16 Halogen Lights	7 kg (16 lb.)
18 Halogen Lights	8 kg (18 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	7 kg (15 lb.)
Hydraulics for Front-Mounted Equipment	9 kg (19 lb.)
Machine Dimensions (continued)	
F Wheelbase	6.16 m (20 ft. 3 in
G Overall Length	8.89 m (29 ft. 2 in
H Overall Length with Scarifier	9.69 m (31 ft. 9 in
I Overall Length with Push Block and Ripper	9.99 m (32 ft. 9 in
. Oteran zengen men abn zioen ana mpper	
I <sup>I</sup> Overall Length with Scarifier and Ripper	10.59 m (34 ft. 9 i





## 7/7/OG/GP SPECIFICATIONS

# ZZOG/GP SPECIFICATIONS

152 mm (6 in.)



Engine	770G/GP			
Manufacturer and Model	John Deere PowerTech™ PSS 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech™ 9.0L	
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II	
Cylinders	6	6	6	
Displacement	9.0L (548 cu. in.)	9.0L (548 cu. in.)	9.0L (548 cu. in.)	
Net Engine Power				
Gear 1	142 kW (190 hp)	138 kW (185 hp)	138 kW (185 hp)	
Gear 2	153 kW (205 hp)	149 kW (200 hp)	149 kW (200 hp)	
Gear 3	164 kW (220 hp)	160 kW (215 hp)	160 kW (215 hp)	
Gear 4	172 kW (230 hp)	168 kW (225 hp)	168 kW (225 hp)	
Gear 5	175 kW (235 hp)	172 kW (230 hp)	172 kW (230 hp)	
Gear 6	183 kW (245 hp)	179 kW (240 hp)	179 kW (240 hp)	
Gear 7	186 kW (250 hp)	183 kW (245 hp)	183 kW (245 hp)	
Gear 8	190 kW (255 hp)	187 kW (250 hp)	187 kW (250 hp)	
Net Peak Torque	1318 Nm (972 lbft.)	1291 Nm (952 lbft.)	1291 Nm (952 lbft.)	
Net Torque Rise	64%	64%	64%	
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled	
Lubrication	Full-flow spin-on filter and integral	Full-flow spin-on filter and integral	Full-flow spin-on filter and integral	
	cooler	cooler	cooler	
Air Cleaner with Restriction Indicator	Dual element, dry	Dual element, dry	Dual element, dry	
Cooling				
Engine Coolant, Extended Life, Rating	–37 deg. C (–34 deg. F)			
Powertrain				
Transmission	Direct-drive John Deere PowerShift Plus™ transmission reservoir with separate filtr		d Shifting (EBS), inching pedal; independent n. (31 gpm) gear pump	
Gears				
Forward	8			
Reverse	8			
Maximum Travel Speeds	No tire slip at 2,180 rpm, 14.0-R24 tires			
Gear 1	4.0 km/h (2.5 mph)	, ,		
Gear 2	5.6 km/h (3.5 mph)			
Gear 3	7.7 km/h (4.8 mph)			
Gear 4	10.9 km/h (6.8 mph)			
Gear 5	16.4 km/h (10.2 mph)			
Gear 6	23.2 km/h (14.4 mph)			
Gear 7	32.3 km/h (20.1 mph)			
Gear 8	45.5 km/h (28.3 mph)			
Front Axle	Heavy-duty welded fabrication			
Oscillation (total)	32 deg.			
Wheel Lean Angle (each direction)	20 deg.			
Differentials		h type can be applied on-the-go: selecta	ble manual or automatic differential lock	
Steering (all models include	All-hydraulic power-frame articulation fo			
steering wheel)	tandems on firm ground, and increases s			
Turning Radius (front steer and articulation)	7.21 m (284 in.) (23 ft. 8 in.)	nde slope stability, retain to straight co	mior meladed in drade 110 (dr.) option	
Articulation (both right and left)	22 dea			
Final Drives	3	22 deg.		
Brakes	Inboard-mounted planetary sealed in cooled, filtered oil  Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both independent			
Primary and Secondary Brakes	systems effective on all 4 tandem wheels Hydraulically actuated, inboard of tander		and filtered oil multi-disc (ISO 3/150)	
Parking Brake	Automatically spring applied, hydraulical			
Hydraulics				
•	GL I :	1 (0515) 111 111 1		
Type	Closed-center, pressure-compensated lo	ad-sensing (PCLS), variable-displacemen	t piston pump	
Type Maximum Pump Flow	212 L/min. (56 gpm)	ad-sensing (PCLS), variable-displacemen	t piston pump	
Туре		ad-sensing (PCLS), variable-displacemen	t piston pump	

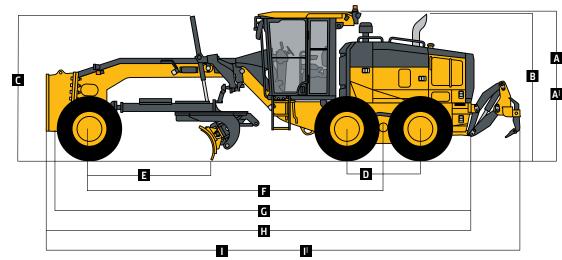
Blade Function	770G/GP	
All-hydraulic, industry-standard lever placen	nent of blade-function controls; includes flo	at position; / discrete saddle positions
Blade Range		
Lift Above Ground	490 mm (19.3 in.)	
Blade Side Shift (right or left)	683 mm (26.9 in.)	
Pitch at Ground Line		
Forward	42 deg.	
Back	5 deg.	
Shoulder Reach Outside Wheels (frame	2083 mm (82.0 in.) (6 ft. 10 in.)	
straight, right or left)		
Bank Cut Angle (right or left)	90 deg.	
Blade Pull		
At Maximum Operating Weight	15 501 kg (34,173 lb.)	
Electrical		
Solid-state load center and sealed-switch		
module	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Voltage	24 volt	24 volt
Number of Batteries	2	2
Battery Capacity	1,400 CCA	1,400 CCA
Reserve Capacity	440 min.	440 min.
Amp-Hour Rating	224 amp-hour	224 amp-hour
Alternator Rating		- F - **
Base	130 amp	100 amp
Optional	200 amp	130 amp
Lights		alogen headlights; front and rear LED turn signals and marker lights; LED
g2	brake and hazard warning lights	
Mainframe	orane and nazara training ngines	
Туре	Welded box construction	
Width (minimum)	307 mm (12.1 in.)	
Height (minimum)	307 mm (12.1 in.)	
Thickness	30,	
Side	16 mm (0.63 in.)	
Top and Bottom Plate	23 mm (0.89 in.)	
Modulus	25 11111 (0.05 111.)	
Minimum Vertical Section	1770 cm³ (108 cu. in.)	
Average Vertical Section at Saddle	2245 cm <sup>3</sup> (137 cu. in.)	
Draft Frame (drawbar)	22+3 cm (137 cu.m.)	
	ass with double hall and socket pivot conn	ection equipped with quick-change replaceable wear inserts
Circle	ess with double ball-alid-socket pivot colli	ection equipped with quick-change replaceable wear inserts
Welded construction, heat-treated, machine	d for flatness, equipped with quick change	ronlacoable wear inserts
Circle Diameter	1524 mm (60 in.)	Teplaceable wear inserts
Rotation	360 deg.	
	,	itiva lock
Drive	Hydraulic motor and worm gear with pos	ILIVE IUCK
Circle Side Shift (right and left)	787 mm (31 in.)	
Moldboard	and a constant of the state of the state of	anne aithe ann dhian bhadh aide abife anns an an 1971 ann an 1971.
		eversible end bits; blade side-shift wear system includes quick-change
replaceable wear inserts and quick-adjust ja		
Base Length	3.66 m (144 in.) (12 ft. 0 in.)	
Height (measured along arc, including	610 mm (24 in.)	
cutting edge)	22 (0.00)	
Thickness	22 mm (0.88 in.)	
Cutting Edge		
Dura-Max™ through-hardened steel edge		
Thickness	16 mm (0.62 in.)	

22
Courtesy of Machine.Market

Scarifiers	770G/GP				
	Front		Mid-mount		
Туре	V-type toolbar with manual 2-pitch posi	tions and	Radial linkage, witl	n NeverGrease™ pin joints; V-type	
	hydraulic float		manual 3-pitch pos	sitions and hydraulic float	
Width of Cut	1.20 m (48 in.) (4 ft. 0 in.)		1.19 m (46.7 in.) (3		
Number of Shanks/Teeth	5 (maximum capacity 9)		11		
Lift Above Ground	589 mm (23.2 in.)		335 mm (13.2 in.)		
Maximum Depth	335 mm (13.2 in.)		325 mm (12.8 in.)		
Shank	333 mm (13.2 m.)		323 mm (12.5 m.)		
	1// (5.75 : )		117 //. ( : )		
Spacing	146 mm (5.75 in.)		117 mm (4.6 in.)	,	
Size	25 x 76 mm (1 x 3 in.)		26 x 76 mm (1 x 3 i	n.)	
Front Lift Group (Balderson-style)					
Parallel linkage, mechanical pins, and hydraul	ic float				
Lift					
Above Ground (top of tube)	1864 mm (73.4 in.)				
Range	988 mm (38.9 in.)				
Rear Ripper/Scarifier	,				
Parallel linkage, with NeverGrease pin joints,	hydraulic float, and integrated hitch				
	Ripper		Scarifier		
Width of Cut	2.21 m (87.2 in.) (7 ft. 3 in.)		2.18 m (86 in.) (7 f	+ 7 in 1	
Wiath of Cut Number of Shanks/Teeth					
	3 (maximum capacity 5)		None standard (ma	ixilliulii capacity 9)	
Lift Above Ground	602 mm (23.7 in.)		810 mm (31.9 in.)		
Maximum Depth	426 mm (16.8 in.)		323 mm (12.7 in.)		
Force at Typical FT4 Weight					
Penetration	9608 kg (21,182 lb.)		_		
Pry-Out	12 689 kg (27,974 lb.)		_		
Shank Size	61.5 x 133 mm (2.42 x 5.25 in.)		25 x 76 mm (1 x 3 i	n.)	
Operator Station					
Low-profile cab with ROPS (ISO 3471-2008) a	nd FOPS (ISO 3449-2005)				
Tires/Wheels					
co, Triceio	14R24 on 254-mm (10 in.) Rim	17.5R25 on 356-m	m /14 in ) Pim	550/65R25 on 432-mm (17 in.) Rin	
Wheel Tread on Ground		2.16 m (85.0 in.)	( 1 7 111.) 1/1111	2.21 m (87.0 in.)	
	, ,	• •			
Overall Width		2.64 m (104.0 in.)		2.77 m (109.0 in.)	
Ground Clearance (front axle)	587 mm (23.1 in.)	587 mm (23.1 in.)		612 mm (24.1 in.)	
Serviceability					
Refill Capacities	EPA Final Tier 4/EU Stage IV			e IIIA and EPA Tier 2/EU Stage II	
Fuel Tank	416.5 L (110 gal.)		416.5 L (110 gal.)		
Fuel Tank Diesel Exhaust Fluid (DEF) Tank	416.5 L (110 gal.) 22.5 L (6 gal.)		416.5 L (110 gal.)		
Diesel Exhaust Fluid (DEF) Tank	22.5 L (6 gal.)		_		
	22.5 L (6 gal.) 55.0 L (14.5 gal.)		— 48.5 L (12.8 gal.)		
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.)		— 48.5 L (12.8 gal.) 27.0 L (7.1 gal.)		
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.)		
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.)		
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each)	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)		
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)		
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)		
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir  Operating Weights	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)		
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)		
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)		
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)		
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)		
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.)	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	ne IIIA and FPA Tier 2/FII Stage II	
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)		— 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	ge IIIA and EPA Tier 2/EU Stage II	
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator Front	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)		— 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)		
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator Front Rear	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)  EPA Final Tier 4/EU Stage IV 4305 kg (9,490 lb.) 12 084 kg (26,640 lb.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.) EPA Tier 3/EU Stag 4314 kg (9,510 lb.) 11 440 kg (25,220	lb.)	
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir  Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)		— 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	lb.)	
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir  Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)  EPA Final Tier 4/EU Stage IV 4305 kg (9,490 lb.) 12 084 kg (26,640 lb.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.) EPA Tier 3/EU Stag 4314 kg (9,510 lb.) 11 440 kg (25,220	lb.)	
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir  Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)  EPA Final Tier 4/EU Stage IV 4305 kg (9,490 lb.) 12 084 kg (26,640 lb.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.) EPA Tier 3/EU Stag 4314 kg (9,510 lb.) 11 440 kg (25,220	lb.)	
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)  EPA Final Tier 4/EU Stage IV 4305 kg (9,490 lb.) 12 084 kg (26,640 lb.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.) EPA Tier 3/EU Stag 4314 kg (9,510 lb.) 11 440 kg (25,220	lb.)	
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)  EPA Final Tier 4/EU Stage IV 4305 kg (9,490 lb.) 12 084 kg (26,640 lb.) 16 388 kg (36,130 lb.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.) EPA Tier 3/EU Stag 4314 kg (9,510 lb.) 11 440 kg (25,220 15 753 kg (34,730	lb.) lb.)	
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir  Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14R24 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	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)  EPA Final Tier 4/EU Stage IV 4305 kg (9,490 lb.) 12 084 kg (26,640 lb.) 16 388 kg (36,130 lb.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.) EPA Tier 3/EU Stag 4314 kg (9,510 lb.) 11 440 kg (25,220 15 753 kg (34,730	lb.) lb.)	
Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir  Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment	22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)  EPA Final Tier 4/EU Stage IV 4305 kg (9,490 lb.) 12 084 kg (26,640 lb.) 16 388 kg (36,130 lb.)		48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.) EPA Tier 3/EU Stag 4314 kg (9,510 lb.) 11 440 kg (25,220 15 753 kg (34,730	lb.) lb.) .) lb.)	

Option Weights	770G/GP
Moldboards with Through-Hardened Dura-Max	
Cutting Edge	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)	0 kg (0 lb.)
with 152-mm x 16-mm (6 in. x 5/8 in.) cutting edge	
and 16-mm (5/8 in.) hardware	(F I (00 IL )
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)	45 kg (99 lb.)
with 203-mm x 19-mm (8 in. x $^{3}/_{4}$ 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 <sup>3</sup> / <sub>4</sub> in.) cutting edge	120 kg (277 ib.)
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	<b>3</b>
and 16-mm (5/8 in.) hardware	
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)	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 <sup>7</sup> / <sub>8</sub> in.)	157.4 kg (347 lb.)
with 203-mm x 19-mm (8 in. x $^{3}/_{4}$ in.) cutting edge 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 kg (554 lb.)
with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge	231 kg (33+10.)
and 16-mm (5/8 in.) hardware	
4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)	261 kg (575 lb.)
with 203-mm x 19-mm (8 in. x 3/4 in.) cutting edge	J. ,
and 19-mm (³/₄ in.) hardware	
Extensions, 610 mm (2 ft.) (right or left)	
For Use with 610-mm (24 in.) Moldboards	116 kg (255 lb.)
For Use with 686-mm (27 in.) Moldboards	120 kg (265 lb.)
Overlay End Bits, Reversible (one pair)	
For 152-mm (6 in.) Cutting Edge	19.5 kg (43 lb.)
For 203-mm (8 in.) Cutting Edge	23 kg (51 lb.)
Heavy-Duty Dual-Input Circle-Drive Gearbox	14 kg (31 lb.)
Circle-Drive Slip Clutch	9 kg (20 lb.)
Moldboard Impact-Absorption System Ripper/Scarifier, Rear Mounted with Hitch and	43 kg (95 lb.) 1139 kg (2,510 lb.)
Ripper Shanks (3)	1133 kg (2,310 lb.)
Scarifier Shanks with Teeth (9 for rear ripper/scarifier)	68 kg (150 lb.)
Ripper Shanks and Teeth (2)	63 kg (139 lb.)
Rear Counterweight with Integral Rear Hitch	727 kg (1,603 lb.)
Rear Hitch	54.4 kg (120 lb.)
Push Block, Front	1338 kg (2,950 lb.)
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.)
	3.10 m (10 ft. 2 in.)
B Height to Top of Exhaust	
C Height to Top of Blade-Lift Cylinders	3.05 m (10 ft. 0 in.)
·	3.05 m (10 ft. 0 in.) 1.54 m (5 ft. 1 in.) 2.57 m (8 ft. 5 in.)

Option Weights (continued)	770G/GP
Scarifier	
Front Mount with Teeth (5)	831 kg (1,833 lb.)
Mid-Mount with Teeth (11)	1481 kg (3,265 lb.
Front Lift Group (Balderson-style)	763 kg (1,682 lb.)
Tires	
14.00-24, 12 PR G2	– 220.4 kg (– 486
17.5-25, 12 PR G2/L2	– 106 kg (– 234 lb
14.00-R24, Radial, G2/L2 General Purpose	0 kg (0 lb.)
14.00-R24, Radial, G2/L2 Snow	40.8 kg (90 lb.)
17.5-R25, Radial, L2 General Purpose	51.7 kg (114 lb.)
17.5-R25, Radial, G2/L2 Snow	95.3 kg (210 lb.)
17.5-R25, Radial, G3/L3 General Purpose	141.5 kg (312 lb.)
550/65R25 XLD70 G3/L3 Radial, General Purpos	e 495.3 kg (1,092 lb
1-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	77 kg (169 lb.)
Rear	141 kg (310 lb.)
Low Cab with Opening Front and Side Windows	14.5 kg (32 lb.)
Premium Air-Suspension, Heated Seat with Adjust-	13 kg (28 lb.)
able Arm- and Headrests	
Coolant Heater	4 kg (9 lb.)
Quick Service	11 kg (24 lb.)
Sound-Absorption Package (machines equipped with	h 14 kg (31 lb.)
Tier 3/Stage IIIA and Tier 2/Stage II engines only)	
Secondary Steering	26 kg (58 lb.)
Beacon Bracket	8 kg (18 lb.)
Fire Extinguisher	14.5 kg (32 lb.)
Lighting Packages	
10 Halogen Lights	4.5 kg (10 lb.)
16 Halogen Lights	7 kg (16 lb.)
18 Halogen Lights	8 kg (18 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Control	s 7 kg (15 lb.)
Hydraulics for Front-Mounted Equipment	9 kg (19 lb.)
Machine Dimensions (continued)	
F Wheelbase	6.16 m (20 ft. 3 in
<b>G</b> 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 <sup>I</sup> Overall Length with Scarifier and Ripper	10.59 m (34 ft. 9 i
For Overall Width see Tires/Wheels on page 24.	





## STOG/GP SPECIFICATIONS





Engine	870G/GP					
Manufacturer and Model	John Deere PowerTech™ PSS 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech™ 9.0L			
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II			
Cylinders	6	6	6			
Displacement	9.0L (548 cu. in.)	9.0L (548 cu. in.)	9.0L (548 cu. in.)			
Net Engine Power	0.02 (0.10 00.11)	(2.02 (2.00 (2.00))	0.02 (0.00 00.00)			
Gear 1	160 kW (215 hp)	153 kW (205 hp)	153 kW (205 hp)			
Gear 2	172 kW (230 hp)	164 kW (220 hp)	164 kW (220 hp)			
Gear 3	183 kW (245 hp)	175 kW (235 hp)	175 kW (235 hp)			
Gear 4	190 kW (255 hp)	183 kW (245 hp)	183 kW (245 hp)			
Gear 5	194 kW (260 hp)	187 kW (250 hp)	187 kW (250 hp)			
Gear 6	201 kW (270 hp)	194 kW (260 hp)	194 kW (260 hp)			
Gear 7	, , ,	` ''				
Gear 8	205 kW (275 hp)	198 kW (265 hp)	198 kW (265 hp)			
	209 kW (280 hp)	201 kW (270 hp)	201 kW (270 hp)			
Net Peak Torque	1428 Nm (1,053 lbft.)	1329 Nm (980 lbft.)	1329 Nm (980 lbft.)			
Net Torque Rise	62%	57%	57%			
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled			
Lubrication	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler			
Air Cleaner with Restriction Indicator	Dual element, dry	Dual element, dry	Dual element, dry			
Cooling						
Engine Coolant, Extended Life, Rating	–37 deg. C (–34 deg. F)					
Powertrain						
Transmission	Direct-drive John Deere PowerShift Plus™ transmission reservoir with separate filtr					
Gears	· ·	3,	, 31 /3 1 1			
Forward	8					
Reverse	8					
Maximum Travel Speeds	No tire slip at 2,180 rpm, 14.0-R24 tires					
Gear 1	3.9 km/h (2.4 mph)					
Gear 2	5.6 km/h (3.5 mph)					
Gear 3	7.9 km/h (4.9 mph)					
Gear 4	10.9 km/h (6.8 mph)					
Gear 5						
Gear 6			16.7 km/h (10.4 mph)			
Gear 7		23.3 km/h (14.5 mph)				
Geal /	32.2 km/h (20.0 mph)					
Coar 0						
Gear 8	45.0 km/h (28.0 mph)					
Front Axle	45.0 km/h (28.0 mph) Heavy-duty welded fabrication					
Front Axle Oscillation (total)	45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg.					
Front Axle Oscillation (total) Wheel Lean Angle (each direction)	45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg.					
Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials	45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutc					
Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include	45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutc All-hydraulic power-frame articulation fo	or maneuverability and productivity; crab	steering reduces side drift, positions			
Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel)	45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutc All-hydraulic power-frame articulation fo tandems on firm ground, and increases s	or maneuverability and productivity; crab	steering reduces side drift, positions			
Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation)	45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutc All-hydraulic power-frame articulation fo tandems on firm ground, and increases s 7.21 m (284 in.) (23 ft. 8 in.)	or maneuverability and productivity; crab	steering reduces side drift, positions			
Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and	45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutc All-hydraulic power-frame articulation fo tandems on firm ground, and increases s 7.21 m (284 in.) (23 ft. 8 in.)	or maneuverability and productivity; crab side-slope stability; return-to-straight co	steering reduces side drift, positions			
Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation)	45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutc All-hydraulic power-frame articulation fo tandems on firm ground, and increases s 7.21 m (284 in.) (23 ft. 8 in.)	or maneuverability and productivity; crab side-slope stability; return-to-straight co	steering reduces side drift, positions			
Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left)	45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutc All-hydraulic power-frame articulation fo tandems on firm ground, and increases s 7.21 m (284 in.) (23 ft. 8 in.)  22 deg. Inboard-mounted planetary sealed in coor Foot-controlled, hydraulically operated, r	or maneuverability and productivity; crab side-slope stability; return-to-straight co oled, filtered oil multiple wet-disc brakes sealed in pressu	steering reduces side drift, positions ntrol included in Grade Pro (GP) option			
Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left) Final Drives Brakes	45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutc All-hydraulic power-frame articulation fo tandems on firm ground, and increases s 7.21 m (284 in.) (23 ft. 8 in.)  22 deg. Inboard-mounted planetary sealed in coc Foot-controlled, hydraulically operated, r systems effective on all 4 tandem wheels	or maneuverability and productivity; crab side-slope stability; return-to-straight co oled, filtered oil multiple wet-disc brakes sealed in pressu	steering reduces side drift, positions ntrol included in Grade Pro (GP) option rized, cooled, filtered oil; both independe			
Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left) Final Drives Brakes  Primary and Secondary Brakes	45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutc All-hydraulic power-frame articulation fo tandems on firm ground, and increases s 7.21 m (284 in.) (23 ft. 8 in.)  22 deg. Inboard-mounted planetary sealed in coc Foot-controlled, hydraulically operated, r systems effective on all 4 tandem wheels Hydraulically actuated, inboard of tander	or maneuverability and productivity; crab side-slope stability; return-to-straight co oled, filtered oil multiple wet-disc brakes sealed in pressu s m pivot, self-adjusting, sealed in cooled a	steering reduces side drift, positions ntrol included in Grade Pro (GP) option rized, cooled, filtered oil; both independe and filtered oil, multi-disc (ISO 3450)			
Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left) Final Drives Brakes  Primary and Secondary Brakes Parking Brake	45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutc All-hydraulic power-frame articulation fo tandems on firm ground, and increases s 7.21 m (284 in.) (23 ft. 8 in.)  22 deg. Inboard-mounted planetary sealed in coc Foot-controlled, hydraulically operated, r systems effective on all 4 tandem wheels	or maneuverability and productivity; crab side-slope stability; return-to-straight co oled, filtered oil multiple wet-disc brakes sealed in pressu s m pivot, self-adjusting, sealed in cooled a	steering reduces side drift, positions ntrol included in Grade Pro (GP) option rized, cooled, filtered oil; both independe and filtered oil, multi-disc (ISO 3450)			
Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left) Final Drives Brakes  Primary and Secondary Brakes Parking Brake Hydraulics	45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutce All-hydraulic power-frame articulation for tandems on firm ground, and increases so 7.21 m (284 in.) (23 ft. 8 in.)  22 deg. Inboard-mounted planetary sealed in coor Foot-controlled, hydraulically operated, resystems effective on all 4 tandem wheels Hydraulically actuated, inboard of tander Automatically spring applied, hydraulical	or maneuverability and productivity; crab side-slope stability; return-to-straight co- oled, filtered oil multiple wet-disc brakes sealed in pressu s m pivot, self-adjusting, sealed in cooled a lly released, oil cooled, self-adjusting (ISC	steering reduces side drift, positions ntrol included in Grade Pro (GP) option rized, cooled, filtered oil; both independe and filtered oil, multi-disc (ISO 3450) 0 3450)			
Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left) Final Drives Brakes  Primary and Secondary Brakes Parking Brake Hydraulics Type	45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutch All-hydraulic power-frame articulation for tandems on firm ground, and increases so 7.21 m (284 in.) (23 ft. 8 in.)  22 deg. Inboard-mounted planetary sealed in cooffoot-controlled, hydraulically operated, resystems effective on all 4 tandem wheels Hydraulically actuated, inboard of tander Automatically spring applied, hydraulical Closed-center, pressure-compensated lo	or maneuverability and productivity; crab side-slope stability; return-to-straight co- oled, filtered oil multiple wet-disc brakes sealed in pressu s m pivot, self-adjusting, sealed in cooled a lly released, oil cooled, self-adjusting (ISC	steering reduces side drift, positions ntrol included in Grade Pro (GP) option rized, cooled, filtered oil; both independe and filtered oil, multi-disc (ISO 3450) 0 3450)			
Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left) Final Drives Brakes  Primary and Secondary Brakes Parking Brake Hydraulics	45.0 km/h (28.0 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clutce All-hydraulic power-frame articulation for tandems on firm ground, and increases so 7.21 m (284 in.) (23 ft. 8 in.)  22 deg. Inboard-mounted planetary sealed in coor Foot-controlled, hydraulically operated, resystems effective on all 4 tandem wheels Hydraulically actuated, inboard of tander Automatically spring applied, hydraulical	or maneuverability and productivity; crab side-slope stability; return-to-straight co- oled, filtered oil multiple wet-disc brakes sealed in pressu s m pivot, self-adjusting, sealed in cooled a lly released, oil cooled, self-adjusting (ISC	steering reduces side drift, positions ntrol included in Grade Pro (GP) option rized, cooled, filtered oil; both independe and filtered oil, multi-disc (ISO 3450) 0 3450)			

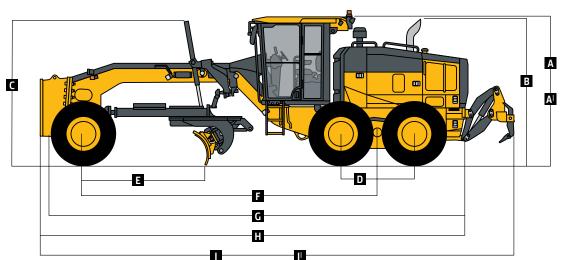
Blade Function	870G/GP	
All-hydraulic, industry-standard lever placem	ent of blade-function controls; includes float position;	7 discrete saddle positions
Blade Range		
Lift Above Ground	452 mm (17.8 in.)	
Blade Side Shift (right or left)	683 mm (26.9 in.)	
Pitch at Ground Line	· ,	
Forward	42 deg.	
Back	5 deg.	
Shoulder Reach Outside Wheels (frame	2329 mm (91.7 in.) (7 ft. 8 in.)	
straight, right or left)	2323 11111 (31.7 11.1) (7 12. 3 11.1)	
Bank Cut Angle (right or left)	90 deg.	
Blade Pull	70 deg.	
At Maximum Operating Weight	15 501 kg (34,173 lb.)	
Electrical	13 301 kg (34,173 lb.)	
Solid-state load center and sealed-switch		
module	EDA Final Tier // /FLI Stage IV	EDA Tier 2/ELI Stage IIIA and EDA Tier 2/ELI Stage II
Voltage	EPA Final Tier 4/EU Stage IV 24 volt	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II 24 volt
<b>3</b>	2	2
Number of Batteries	2 1,400 CCA	2 1,400 CCA
Battery Capacity	1,400 CCA 440 min.	1,400 CCA 440 min.
Reserve Capacity		
Amp-Hour Rating	224 amp-hour	224 amp-hour
Alternator Rating	170	100
Base	130 amp	100 amp
Optional	200 amp	130 amp
Lights		lights; front and rear LED turn signals and marker lights; LED
	brake and hazard warning lights	
Mainframe	WILL II	
Type	Welded box construction	
Width (minimum)	307 mm (12.1 in.)	
Height (minimum)	307 mm (12.1 in.)	
Thickness		
Side	16 mm (0.63 in.)	
Top and Bottom Plate	30 mm (1.17 in.)	
Modulus		
Minimum Vertical Section	1770 cm³ (108 cu. in.)	
Average Vertical Section at Saddle	2635 cm³ (161 cu. in.)	
Draft Frame (drawbar)		
Welded box construction machined for flatn	ess with double ball-and-socket pivot connection equip	ped with quick-change replaceable wear inserts
Circle		
Welded construction, heat-treated, machine	d for flatness, equipped with quick-change replaceable	wear inserts
Circle Diameter	1524 mm (60 in.)	
Rotation	360 deg.	
Drive	Hydraulic motor and worm gear with positive lock	
Circle Side Shift (right and left)	787 mm (31 in.)	
Moldboard		
High-strength, pre-stressed for higher streng	gth, wear-resistant, high-carbon steel and reversible en	d bits; blade side-shift wear system includes quick-change
replaceable wear inserts and quick-adjust jac	kscrew system	
Base Length	4.27 m (168 in.) (14 ft. 0 in.)	
Height (measured along arc, including	686 mm (27 in.)	
cutting edge)		
Thickness	25 mm (1 in.)	
Cutting Edge		
Dura-Max™ through-hardened steel edge		
Thickness	19 mm (0.75 in.)	
Width	203 mm (8 in.)	
	• •	

26 Courtesy of Machine.Market

Scarifiers	870G/GP				
	Front		Mid-mount		
Туре	V-type toolbar with manual 2-pitch pos	sitions and	Radial linkage, with NeverGrease™ pin joints; V-type		
	hydraulic float			sitions and hydraulic float	
Width of Cut	1.20 m (48 in.) (4 ft. 0 in.)		1.19 m (46.7 in.) (3		
Number of Shanks/Teeth	5 (maximum capacity 9)		11	,	
Lift Above Ground	589 mm (23.2 in.)		335 mm (13.2 in.)		
Maximum Depth	335 mm (13.2 in.)		325 mm (12.8 in.)		
Shank	333         (13.2    .)		323 11111 (12.0 111.)		
	1/6 /5 75: \		117 // (:-)		
Spacing	146 mm (5.75 in.)		117 mm (4.6 in.)		
Size	25 x 76 mm (1 x 3 in.)		26 x 76 mm (1 x 3	in.)	
Front Lift Group (Balderson-style)					
Parallel linkage, mechanical pins, and hydraul	lic float				
Lift					
Above Ground (top of tube)	1864 mm (73.4 in.)				
Range	988 mm (38.9 in.)				
Rear Ripper/Scarifier	to the state of th				
Parallel linkage, with NeverGrease pin joints,	hydraulic float, and integrated hitch				
araner mikage, with Neveralease pili jolits,	Ripper		Scarifier		
Nidth of Cut				i+ 7 in 1	
Width of Cut	2.21 m (87.2 in.) (7 ft. 3 in.)		2.18 m (86 in.) (7 f	•	
Number of Shanks/Teeth	3 (maximum capacity 5)		None standard (ma	aximum capacity 9)	
Lift Above Ground	602 mm (23.7 in.)		810 mm (31.9 in.)		
Maximum Depth	426 mm (16.8 in.)		323 mm (12.7 in.)		
Force at Typical FT4 Weight					
Penetration	10 087 kg (22,238 lb.)		_		
Pry-Out	13 185 kg (29,068 lb.)		_		
Shank Size	61.5 x 133 mm (2.42 x 5.25 in.)		25 x 76 mm (1 x 3	in.)	
Operator Station	,				
Low-profile cab with ROPS (ISO 3471-2008) a	and FOPS (ISO 3449-2005)				
Tires/Wheels					
III C3/ VVIICCIS	1/D2/ 25/ /10 : \ D:				
		1/LD/L ~n /L/ ~	m /1/i in ) Dim	550/65D75 on /127 mm /17 in 10:n	
MANUELT adapted and	14R24 on 254-mm (10 in.) Rim	17.5R25 on 356-m	nm (14 in.) Rim		
Wheel Tread on Ground	2.08 m (82.0 in.)	2.16 m (85.0 in.)	nm (14 in.) Rim	2.21 m (87.0 in.)	
Overall Width	2.08 m (82.0 in.) 2.49 m (98.0 in.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	nm (14 in.) Rim	2.21 m (87.0 in.) 2.77 m (109.0 in.)	
Overall Width Ground Clearance (front axle)	2.08 m (82.0 in.)	2.16 m (85.0 in.)	nm (14 in.) Rim	2.21 m (87.0 in.)	
Overall Width Ground Clearance (front axle) <mark>Serviceability</mark>	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)		2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.)	
Overall Width Ground Clearance (front axle)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag	2.21 m (87.0 in.) 2.77 m (109.0 in.)	
Overall Width Ground Clearance (front axle) <mark>Serviceability</mark>	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.) EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)		2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.)	
Overall Width Ground Clearance (front axle) <mark>Serviceability</mark> Refill Capacities	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.) EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.)	
Overall Width Ground Clearance (front axle) <mark>Serviceability</mark> Refill Capacities Fuel Tank	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.) EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.) EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.) — 48.5 L (12.8 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.) EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.) EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.) EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each)	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.)  EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.) EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stog 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.)  EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.) EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stog 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 4.27-m x 686-mm x	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.) EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stog 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.) EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stog 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid 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	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.) EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stog 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid 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	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.) EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stog 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid 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 <sup>3</sup> / <sub>4</sub> in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.)	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.)  EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.) ge IIIA and EPA Tier 2/EU Stage II	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid 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 <sup>3</sup> / <sub>4</sub> in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.)  EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.) ge IIIA and EPA Tier 2/EU Stage II	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid 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 <sup>3</sup> / <sub>4</sub> in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator Front	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.)  EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.) ge IIIA and EPA Tier 2/EU Stage II ge IIIA and EPA Tier 2/EU Stage II	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid 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, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.)  EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.) ge IIIA and EPA Tier 2/EU Stage II ge IIIA and EPA Tier 2/EU Stage II b.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid 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 <sup>3</sup> / <sub>4</sub> in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.)  EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.) ge IIIA and EPA Tier 2/EU Stage II ge IIIA and EPA Tier 2/EU Stage II b.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid 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 <sup>3</sup> / <sub>4</sub> in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.)  EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.) ge IIIA and EPA Tier 2/EU Stage II ge IIIA and EPA Tier 2/EU Stage II b.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid 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 <sup>3</sup> / <sub>4</sub> in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.)  EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.) ge IIIA and EPA Tier 2/EU Stage II ge IIIA and EPA Tier 2/EU Stage II b.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid 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 <sup>3</sup> / <sub>4</sub> in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.)  EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.) ge IIIA and EPA Tier 2/EU Stage II ge IIIA and EPA Tier 2/EU Stage II b.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid 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, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.)  EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.) EPA Tier 3/EU Stag 4540 kg (10,010 lt 11 843 kg (26,110 16 384 kg (36,120	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.) ge IIIA and EPA Tier 2/EU Stage II b.) lb.)	
Overall Width Ground Clearance (front axle)  Serviceability  Refill Capacities  Fuel Tank  Diesel Exhaust Fluid (DEF) Tank  Cooling System  Engine Oil with Filter  Transmission Fluid  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, 17.5R25 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	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.)  EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)  EPA Final Tier 4/EU Stage IV 4531 kg (9,990 lb.) 12 487 kg (27,530 lb.) 17 019 kg (37,520 lb.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.) EPA Tier 3/EU Stag 4540 kg (10,010 lt 11 843 kg (26,110 16 384 kg (36,120	2.21 m (87.0 in.) 2.77 m (109.0 in.) 612 mm (24.1 in.) ge IIIA and EPA Tier 2/EU Stage II b.) lb.)	
Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil with Filter Transmission Fluid 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, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment	2.08 m (82.0 in.) 2.49 m (98.0 in.) 587 mm (23.1 in.)  EPA Final Tier 4/EU Stage IV 416.5 L (110 gal.) 22.5 L (6 gal.) 55.0 L (14.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.)	EPA Tier 3/EU Stag 416.5 L (110 gal.) — 48.5 L (12.8 gal.) 27.0 L (7.1 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.) EPA Tier 3/EU Stag 4540 kg (10,010 lt 11 843 kg (26,110 16 384 kg (36,120	2.77 m (109.0 in.) 612 mm (24.1 in.) ge IIIA and EPA Tier 2/EU Stage II 0.) lb.) lb.)	

Or	otion Weights	870G/GP
	oldboards with Through-Hardened Dura-Max	0700701
	tting Edge	
	3.66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.)	– 126 kg (– 278 lb.)
	with 203-mm x 19-mm (8 in. $x^3/4$ in.) cutting edge	o g ( / o . o . )
	and 16-mm (5/8 in.) hardware	
	3.96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.)	– 72 kg (– 159 lb.)
	with 203-mm x 19-mm (8 in. $x^3/4$ in.) cutting edge	72 kg ( 133 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.)	0 kg (0 lb.)
	with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge	o ng (o .o.)
	and 16-mm (5/8 in.) hardware	
	4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)	9.5 kg (21 lb.)
	with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge	5 · 5 · · <b>5</b> (= · · · · · · )
	and 19-mm ( <sup>3</sup> / <sub>4</sub> in.) hardware	
	4.88 m x 686 mm x 25 mm (16 ft. x 27 in. x 1 in.)	137 kg (302 lb.)
	with 203-mm x 19-mm (8 in. x 3/4 in.) cutting edge	- J /
	and 19-mm (3/4 in.) hardware	
	tensions, 610 mm (2 ft.) (right or left)	
	For Use with 686-mm (27 in.) Moldboards	120 kg (265 lb.)
	rerlay End Bits, Reversible (one pair)	j., ,
	For 152-mm (6 in.) Cutting Edge	19.5 kg (43 lb.)
	For 203-mm (8 in.) Cutting Edge	23 kg (51 lb.)
He	avy-Duty Dual-Input Circle-Drive Gearbox	14 kg (31 lb.)
Cir	cle-Drive Slip Clutch	9 kg (20 lb.)
M	oldboard Impact-Absorption System	43 kg (95 lb.)
Rip	pper/Scarifier, Rear Mounted with Hitch and	1139 kg (2,510 lb.)
Rip	oper Shanks (3)	
	arifier Shanks with Teeth (9 for rear ripper/scarifier)	68 kg (150 lb.)
Rip	oper Shanks and Teeth (2)	63 kg (139 lb.)
Re	ar Counterweight with Integral Rear Hitch	727 kg (1,603 lb.)
	ar Hitch	54.4 kg (120 lb.)
Pu	sh Block, Front	1338 kg (2,950 lb.)
	arifier	
	Front Mount with Teeth (5)	831 kg (1,833 lb.)
	Mid-Mount with Teeth (11)	1481 kg (3,265 lb.)
	achine Dimensions	
Α	Height to Top of Cab	3.18 m (10 ft. 5 in.)
	Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)
В	Height to Top of Exhaust	3.10 m (10 ft. 2 in.)
C	Height to Top of Blade-Lift Cylinders	3.05 m (10 ft. 0 in.)
D	Tandem Axle Spacing	1.54 m (5 ft. 1 in.)
Ε	Blade Base	2.53 m (8 ft. 4 in.)

Option Weights (continued)	870G/GP
Front Lift Group (Balderson-style)	763 kg (1,682 lb.)
Tires	
14.00-24, 12 PR G2	- 272 kg (- 600 lb.)
17.5-25, 12 PR G2/L2	- 158 kg (- 348 lb.)
14.00-R24, Radial, G2/L2 General Purpose	– 52 kg (– 114 lb.)
14.00-R24, Radial, G2/L2 Snow	– 11 kg (– 24 lb.)
17.5-R25, Radial, L2 General Purpose	0 kg (0 lb.)
17.5-R25, Radial, G2/L2 Snow	43.5 kg (96 lb.)
17.5-R25, Radial, G3/L3 General Purpose	90 kg (198 lb.)
550/65R25 XLD70 G3/L3 Radial, General Purpose	444 kg (978 lb.)
Multi-Piece Rims	
254 mm x 610 mm (10 in. x 24 in.)	– 87 kg (– 192 lb.)
356 mm x 635 mm (14 in. x 25 in.)	0 kg (0 lb.)
432 mm x 635 mm (17 in. x 25 in.)	54.4 kg (120 lb.)
Fenders	<b>3</b> , ,
Front	77 kg (169 lb.)
Rear	141 kg (310 lb.)
Low Cab with Opening Front and Side Windows	14.5 kg (32 lb.)
Premium Air-Suspension, Heated Seat with Adjust-	13 kg (28 lb.)
able Arm- and Headrests	
Coolant Heater	4 kg (9 lb.)
Quick Service	11 kg (24 lb.)
Sound-Absorption Package (machines equipped with	14 kg (31 lb.)
Tier 3/Stage IIIA and Tier 2/Stage II engines only)	_
Secondary Steering	26 kg (58 lb.)
Beacon Bracket	8 kg (18 lb.)
Fire Extinguisher	14.5 kg (32 lb.)
Lighting Packages	
10 Halogen Lights	4.5 kg (10 lb.)
16 Halogen Lights	7 kg (16 lb.)
18 Halogen Lights	8 kg (18 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	7 kg (15 lb.)
Hydraulics for Front-Mounted Equipment	9 kg (19 lb.)
Machine Dimensions (continued)	
F Wheelbase	6.16 m (20 ft. 3 in.)
G Overall Length	8.89 m (29 ft. 2 in.)
H Overall Length with Scarifier	9.69 m (31 ft. 9 in.)
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 28.	·
, ,	



## Additional equipment

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

See your John Deere dealer for further information.

620	670	770	870	Operator's Station
•	•	•	•	Low-profile ROPS/FOPS cab with HVAC (ROPS ISO 3471 / FOPS SAE 3449 Level II)
•	•	•	•	Low-profile ROPS/FOPS cab utilizing laminated glass with fixed lower front and side opening windows
•	<b>A</b>	<b>A</b>	•	Opening front and side windows (standard with Grade Pro)
•	•	•	•	Keyless start with multiple security modes
•	•	•	•	Fabric air-suspension seat with arm- rests and headrest
•	•	<b>A</b>	•	Premium heated, leather/fabric, high- wide back, air-suspension seat with armrests (standard with Grade Pro)
•	•	•	•	Sealed-switch module with function indicators
•	•	•	•	Electric rear-window defroster
•	•	•	•	Upper front windshield washers with intermittent wipers
•	•	•	•	Upper rear windshield washers with intermittent wipers
_	•	_	•	Lower front intermittent wiper and washer
<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	Powered cab precleaner
<b>A</b>		<u> </u>	<b>A</b>	Decelerator pedal
<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	Flip-down, right- and/or left-hand cab beacon with bracket
•	•	•	•	Cab prewired for beacon, radio, and auxiliary circuit
<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	Front window sun visor / retractable rear sunshade
•	•	•	•	Rearview mirrors, exterior (2) (SAE J985)
<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	Heated exterior mirrors (2) (SAE J985)
<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	Fire extinguisher High-resolution rearview camera
			•	with dedicated monitor Retractable seat belt, 76 mm (3 in.)
•	•	•		(SAE 386)
	_	_	<b>A</b>	AM/FM radio with auxiliary and Weather Band (WB) AM/FM radio with Bluetooth®,
				auxiliary, WB, and XM Satellite Radio™ ready
•	•	•	•	Push-button-activated cruise control  Electrical
				100-amp alternator
A	<u> </u>	<u> </u>	•	130-amp alternator
<u></u>	_	<u>_</u>	<u>_</u>	200-amp alternator (FT4/Stage IV)
•	•	•	•	Batteries (2), 1,400 CCA with 440- min. reserve capacity
<b>A</b>	•	•	•	Left-hand engine compartment service-check light
<b>A</b>	•	•	<b>A</b>	Right-hand engine compartment service-check light
•	•	•	•	Transporting lights (4 halogen)
•	•	•	•	Grading lights (10 halogen lights)
•	<b>A</b>	<b>A</b>	<b>A</b>	Deluxe grading lights (18 halogen lights)
•	<b>A</b>	<b>A</b>	<b>A</b>	Premium grading lights (18 LED lights)

620	670	770	870	Electrical (continued)
	<b>A</b>	<b>A</b>	<b>A</b>	Tall front snowplow light bar
•	•	•	•	Multifunction/multi-language diag- nostic LCD color monitor
•	•	•	•	Reverse warning alarm (SAE J994)
•	•	•	•	LED brake and turn lights
				Moldboard
				Patented pre-stressed, high strength, wear resistant:
•	•	•		3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)
	•	•	•	3.66-m x 686-mm x 25-mm (12 ft. x 27 in. x 1 in.)
	<b>A</b>	<b>A</b>	<b>A</b>	3.96-m x 686-mm x 25-mm (13 ft. x 27 in. x 1 in.)
•	<b>A</b>	<b>A</b>		4.27-m x 610-mm x 22-mm (14 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)
	<b>A</b>	•	•	4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1 in.)
			•	4.88-m x 686-mm x 25-mm (16 ft. x 27 in. x 1 in.)
•	•	•	•	Quick-change and jackscrew-adjust- able moldboard side-shift extreme- duty wear inserts
<b>A</b>	<b>A</b>	<b>A</b>		610-mm (24 in.) left- or right-hand extensions for 610-mm (24 in.) moldboard
		•	<b>A</b>	610-mm (24 in.) left- or right-hand extensions for 686-mm (27 in.) moldboard
<b>A</b>	•	•	<b>A</b>	Reversible overlay endbits
				O
				Overall Vehicle
•	•	•	•	Dverall Vehicle  JDLink™ Ultimate wireless communication system (available in specific countries; see your dealer for details)
•	•	•	•	JDLink™ Ultimate wireless commu- nication system (available in specific
•	•	•	•	JDLink™ Ultimate wireless commu- nication system (available in specific countries; see your dealer for details) Ground-level fuel and diesel exhaust fluid (DEF) filling Fluid-sampling ports for engine oil and coolant, hydraulic oil, and axle
•	•	•	•	JDLink™ Ultimate wireless communication system (available in specific countries; see your dealer for details) Ground-level fuel and diesel exhaust fluid (DEF) filling Fluid-sampling ports for engine oil and coolant, hydraulic oil, and axle and transmission fluids Vandal-protection locking for: Cab doors / Top tank radiator-access door / Engine coolant surge tank / Hydraulic reservoir cap / Battery-disconnect switch / Ground-level electrical master disconnect switch / Fuel-tank door and cap / Toolbox
•	•	•	•	JDLink™ Ultimate wireless communication system (available in specific countries; see your dealer for details) Ground-level fuel and diesel exhaust fluid (DEF) filling Fluid-sampling ports for engine oil and coolant, hydraulic oil, and axle and transmission fluids Vandal-protection locking for: Cab doors / Top tank radiator-access door / Engine coolant surge tank / Hydraulic reservoir cap / Battery-disconnect switch / Ground-level electrical master disconnect switch / Fuel-tank door and cap / Toolbox Environmental drains with hoses for engine, transmission, hydraulic, differential fluids, and engine coolant
•	•	•	•	JDLink™ Ultimate wireless communication system (available in specific countries; see your dealer for details) Ground-level fuel and diesel exhaust fluid (DEF) filling Fluid-sampling ports for engine oil and coolant, hydraulic oil, and axle and transmission fluids Vandal-protection locking for: Cab doors / Top tank radiator-access door / Engine coolant surge tank / Hydraulic reservoir cap / Battery-disconnect switch / Ground-level electrical master disconnect switch / Fuel-tank door and cap / Toolbox Environmental drains with hoses for engine, transmission, hydraulic, differential fluids, and engine coolant Hydraulically driven cool-on-demand reversing fan
•	•	•	•	JDLink™ Ultimate wireless communication system (available in specific countries; see your dealer for details) Ground-level fuel and diesel exhaust fluid (DEF) filling Fluid-sampling ports for engine oil and coolant, hydraulic oil, and axle and transmission fluids Vandal-protection locking for: Cab doors / Top tank radiator-access door / Engine coolant surge tank / Hydraulic reservoir cap / Battery-disconnect switch / Ground-level electrical master disconnect switch / Fuel-tank door and cap / Toolbox Environmental drains with hoses for engine, transmission, hydraulic, differential fluids, and engine coolant Hydraulically driven cool-on-demand reversing fan Banked easy-access vertical spin-on filters for hydraulic, transmission, and axle fluids
•	•	•	•	JDLink™ Ultimate wireless communication system (available in specific countries; see your dealer for details) Ground-level fuel and diesel exhaust fluid (DEF) filling Fluid-sampling ports for engine oil and coolant, hydraulic oil, and axle and transmission fluids Vandal-protection locking for: Cab doors / Top tank radiator-access door / Engine coolant surge tank / Hydraulic reservoir cap / Battery-disconnect switch / Ground-level electrical master disconnect switch / Fuel-tank door and cap / Toolbox Environmental drains with hoses for engine, transmission, hydraulic, differential fluids, and engine coolant Hydraulically driven cool-on-demand reversing fan Banked easy-access vertical spin-on filters for hydraulic, transmission, and axle fluids Engine rotary ejector precleaner
•	•	•	•	JDLink™ Ultimate wireless communication system (available in specific countries; see your dealer for details) Ground-level fuel and diesel exhaust fluid (DEF) filling Fluid-sampling ports for engine oil and coolant, hydraulic oil, and axle and transmission fluids Vandal-protection locking for: Cab doors / Top tank radiator-access door / Engine coolant surge tank / Hydraulic reservoir cap / Battery-disconnect switch / Ground-level electrical master disconnect switch / Fuel-tank door and cap / Toolbox Environmental drains with hoses for engine, transmission, hydraulic, differential fluids, and engine coolant Hydraulically driven cool-on-demand reversing fan Banked easy-access vertical spin-on filters for hydraulic, transmission, and axle fluids Engine rotary ejector precleaner Automatic differential lock Engine-stall prevention and auto
•	•	•	•	JDLink™ Ultimate wireless communication system (available in specific countries; see your dealer for details) Ground-level fuel and diesel exhaust fluid (DEF) filling Fluid-sampling ports for engine oil and coolant, hydraulic oil, and axle and transmission fluids Vandal-protection locking for: Cab doors / Top tank radiator-access door / Engine coolant surge tank / Hydraulic reservoir cap / Battery-disconnect switch / Ground-level electrical master disconnect switch / Fuel-tank door and cap / Toolbox Environmental drains with hoses for engine, transmission, hydraulic, differential fluids, and engine coolant Hydraulically driven cool-on-demand reversing fan Banked easy-access vertical spin-on filters for hydraulic, transmission, and axle fluids Engine rotary ejector precleaner Automatic differential lock Engine-stall prevention and auto shutdown Adjustable rotary engine precleaner
•	•	•	•	JDLink™ Ultimate wireless communication system (available in specific countries; see your dealer for details) Ground-level fuel and diesel exhaust fluid (DEF) filling Fluid-sampling ports for engine oil and coolant, hydraulic oil, and axle and transmission fluids Vandal-protection locking for: Cab doors / Top tank radiator-access door / Engine coolant surge tank / Hydraulic reservoir cap / Battery-disconnect switch / Ground-level electrical master disconnect switch / Fuel-tank door and cap / Toolbox Environmental drains with hoses for engine, transmission, hydraulic, differential fluids, and engine coolant Hydraulically driven cool-on-demand reversing fan Banked easy-access vertical spin-on filters for hydraulic, transmission, and axle fluids Engine rotary ejector precleaner Automatic differential lock Engine-stall prevention and auto shutdown

620	670	770	870	Overall Vehicle (continued)
<b>020</b>	<b>670</b>	<b>//</b> 0	070	Single-input circle drive with slip
		_		clutch
	•	•	•	Heavy-duty dual-input circle drive without slip clutch
	•	•	•	Heavy-duty dual-input circle drive with slip clutch
•	$\blacktriangle$	$\blacktriangle$	$\blacktriangle$	AutoShift transmission
$\blacktriangle$	$\blacktriangle$	$\blacktriangle$	$\blacktriangle$	Blade-impact-absorption system
<b>A</b>	•	$\blacktriangle$	<b>A</b>	Front and/or rear wheel fenders
<b>A</b>	•	•	<b>A</b>	Quick-service bank for transmission, hydraulic, engine oil, and engine coolant fluid changes
<b>A</b>	<b>A</b>	•	<b>A</b>	Secondary steering
	•	<b>A</b>	<b>A</b>	Sound-absorption package (Tier 3/ Stage IIIA and Tier 2/Stage II)
				Front Attachments
<b>A</b>	<b>A</b>	•	<b>A</b>	Front push block
•	•	<b>A</b>	•	V-type front scarifier with float position, 5 shanks
•	•	•	•	Mid-mount scarifier with float position, 11 shanks
•	•	<b>A</b>	•	Front Balderson-style lift group with float position
_	<b>A</b>	<b>A</b>	<b>A</b>	Front-mounted dozer blades
				Rear Attachments
•	•	•	•	Full bottom guard with access panel and side guards for rear vehicle pro- tection
<b>A</b>	<b>A</b>	•	<b>A</b>	Rear-mounted ripper/scarifier combination with rear hitch and pin, 3 ripper shanks
•	•	<b>A</b>	•	Rear counterweight with rear hitch and pin
•	$\blacktriangle$	$\blacktriangle$	$\blacktriangle$	Rear hitch and pin
•	•	•	<b>A</b>	Extra scarifier shanks (9) with teeth for rear ripper scarifier
	<b>A</b>	<b>A</b>	<b>A</b>	Extra ripper shanks (2) with teeth for rear ripper/scarifier
				Grade Pro (GP) Option
•	•	•	•	Low-profile GP cab with opening lower front and side windows
•	<b>A</b>	•	•	Low-profile GP cab utilizing laminated glass with fixed lower front and side opening windows
•	•	•	•	Premium heated, leather/fabric, high wide-back air-suspension seat with armrests
<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	Dual-joystick controls
<b>A</b>	•	<b>A</b>	•	Fingertip armrest-mounted controls including steering lever
•	•	•	•	Steering wheel
•	•	•	•	Cross-slope
•	•	•	•	Return to straight
•	•	•	•	Grade-control-ready package
				Grade Control
<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	Mast mounts
<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	Topcon ready on GP models*
•	<b>A</b>	•	•	Trimble ready on GP models*
<b>A</b>		<b>A</b>	<b>A</b>	Leica ready on GP models*
*Ava	ilable	soon	on G m	nodels.



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 C2, Bias tires and 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x <sup>7</sup>/<sub>8</sub> 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 620G, 670G, and 770G, and 17.5 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. Weights include lubricants, coolants, full fuel tanks, and 79-kg (175 lb.) operators.