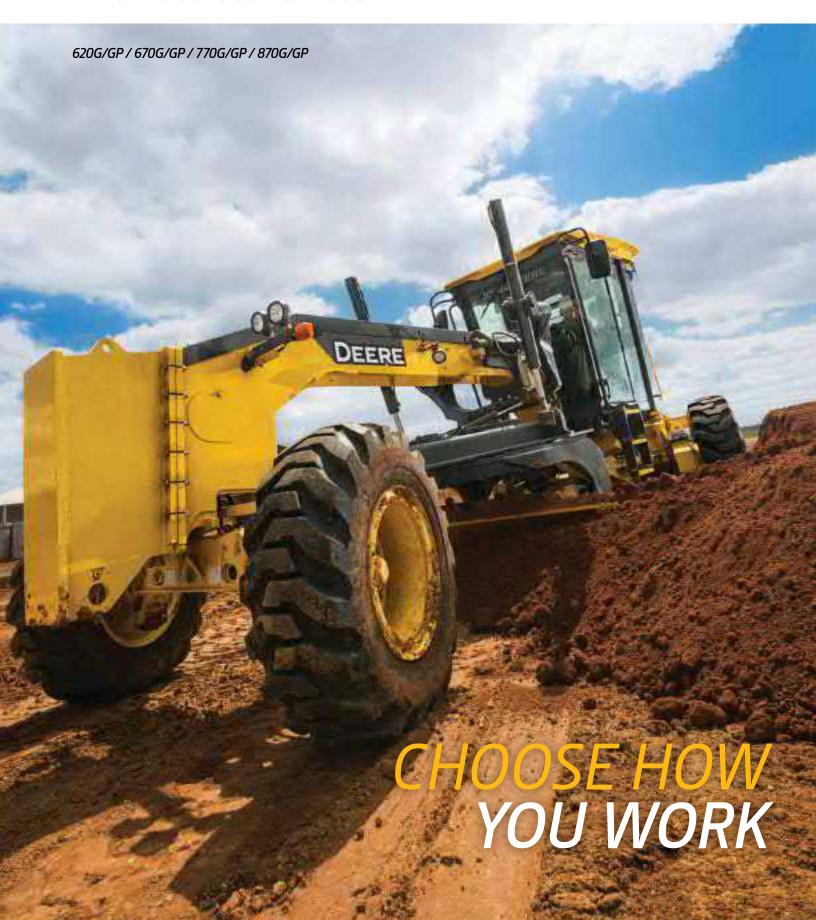
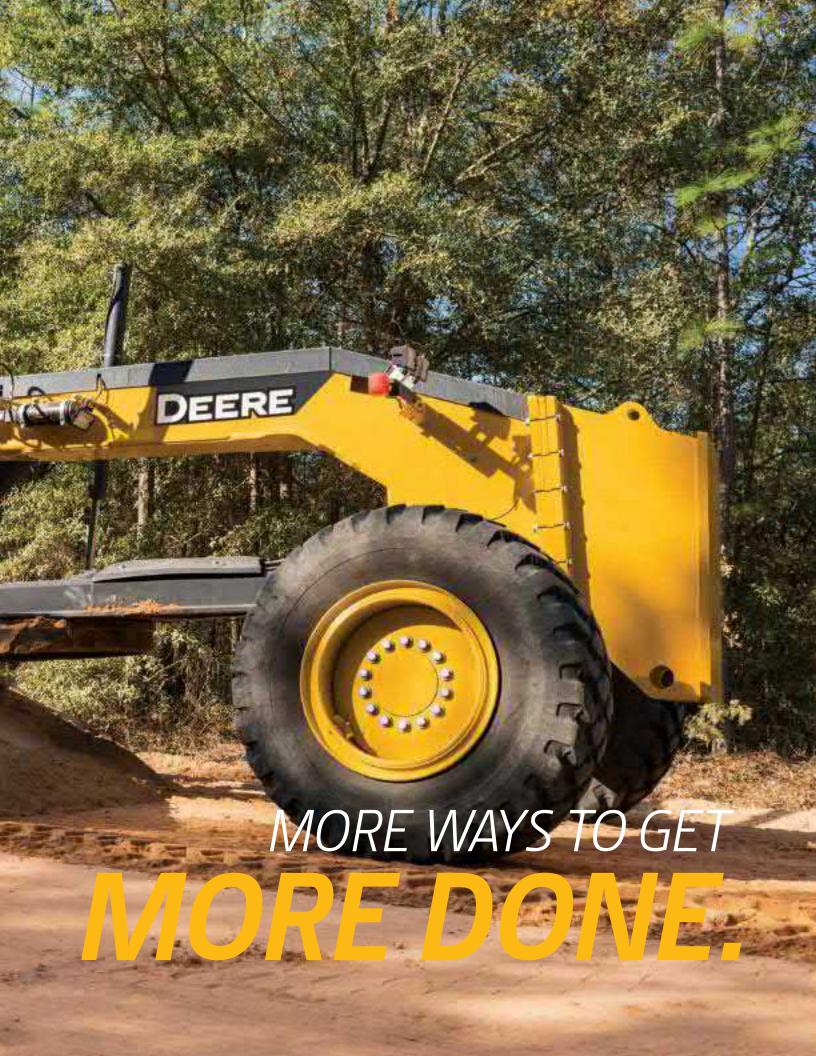
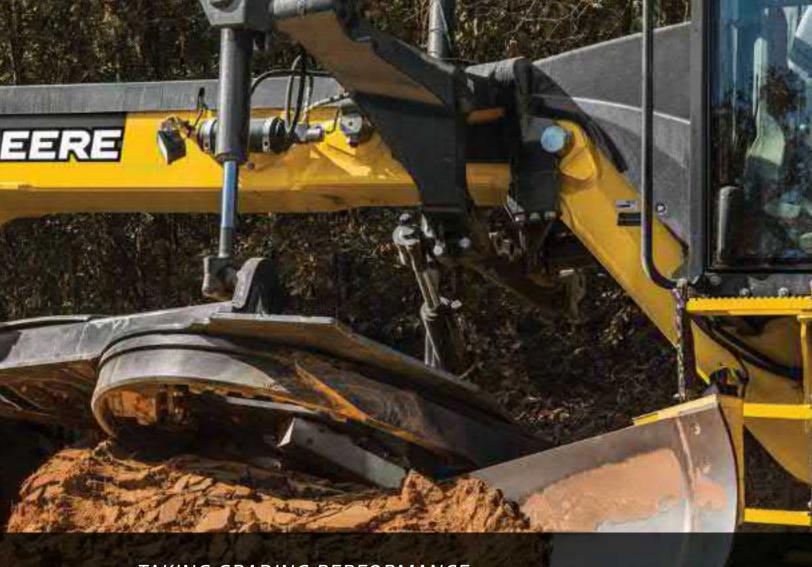
G-SERIES 4WD MOTOR GRADERS











TAKING GRADING PERFORMANCE TO THE NEXT LEVEL.

John Deere motor graders have earned a reputation for exceptional control and effortless grading precision. And now, thanks to the best ideas of customers like you, we've added exclusive automation on Grade Pro (GP) models to our list of featured firsts. Along with Customer Advocate Group-tested dual-joystick controls, wide-ranging grade-control system options including integrated SmartGrade models, and the small and economical 620G, it's just one more example of all the ways we're leading the way to move your operation in a whole new direction.



WHEN YOU ASK, WE LISTEN: THE 620G GRADER.

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.

Innovation in action

New John Deere automation features designed to move you ahead in a big way include Machine-Damage Avoidance, Machine Presets, Auto-Articulation, Auto-Gain for Cross Slope, and Auto-Pass (available on GP models; see page 6 for all the details).

Go forward

Auto-Shift PLUS simplifies operation of both GP and G-Series models, for machine operation without using the inching pedal.

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.

Unlimited grade control

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

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.

Smarter from day one

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



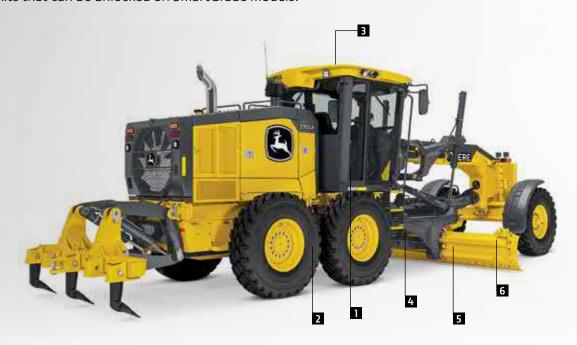
INDUSTRY-FIRST AUTOMATION FEATURES & SMARTGRADE CONFIGURATIONS



GET AHEAD OF IT

THE JOHN DEERE DIFFERENCE.

Set yourself apart from the competition. Because with industry-exclusive Auto-Gain for Cross Slope, Auto-Pass, and Auto-Shift PLUS, it's push-button easy to take the lead. Our automation advantages for all Grade Pro (GP) models are also available as field kits that can be unlocked on SmartGrade models.



- Exclusive **Auto-Shift PLUS** also available on all G-Series models allows operators to work without using the inching pedal.
- 2 Auto-Gain for Cross Slope automatically adjusts gain settings based on ground speed to maximize performance.
- Auto-Articulation allows the operator to increase the maneuverability of coordinated steering and articulation while using only the joystick-steering function to steer and operate other necessary functions without manually articulating the machine.
- Machine-Damage Avoidance eliminates the risk of blade damage to machine structures during any operation, even complex orientations.
- easy by autonatically placing the blade on the ground and activating the grade-control system (when equipped) at the start of the pass, then automatically raising and resetting the blade at the end of it.
- 6 Preparing the machine for transport is push-button easy with Machine Presets. Stow the blade and ripper, turn on the lights including the hazards, and enable Auto-Shift with one button press, for speedy jobsite transitions.

Optional premium circle

Featuring a fully sealed bearing and pinion that run smoother and quieter, this industry-leading design reduces operating costs while delivering 40-percent more torque and 15-percent more speed than a traditional circle. Contractors no longer have to compensate for wear in the circle, improving accuracy when using a grade-control system — especially impactful when coupled with the innovative John Deere SmartGrade™ system. And greasing intervals of only four zerks every 500 hours make the premium circle essentially maintenance free.



FREEDOM OF CHOICE

WITHOUT LIFTING A FINGER.

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







Joystick option

Our dual-joystick 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.



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





SIGHT FOR SORE EYES

ENVISION MORE PRODUCTIVITY.

With their exceptional visibility, an LCD high-visibility monitor, and smooth gateless 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, including the parking brake, for more convenient access and easier operation.

LCD hi-vis monitor streamlines access to vital data

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

Now you see it

Contractors will benefit from improved visibility to the tandems on GP models while working around obstacles such as water mains and hubs.



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.



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.

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.

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.

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 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.

Get valuable insight with

PRECISION CONSTRUCTION

This suite of construction technology delivers **Productivity Solutions** to help you get more done, more efficiently. The in-base JDLink™ subscription provides machine location, utilization data, and alerts to help you maximize productivity and efficiency. Other productivity solutions include grademanagement options for multiple machine forms and payload weighing for wheel loaders and articulated dump trucks.

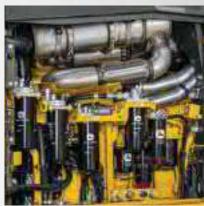
To maximize uptime and lower costs, JDLink also enables John Deere Connected Support.™ John Deere's centralized Machine Health Monitoring Center analyzes data from thousands of connected machines, identifies trends, and develops recommended actions, called Expert Alerts, to help prevent downtime. Dealers use Expert Alerts to proactively address conditions that may otherwise likely lead to downtime. Your dealer can also monitor machine health and leverage remote diagnostics and programming capability to further diagnose problems and even update machine software without a time-consuming trip to the jobsite.



GET IT DONE WITH EASE.

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 engine oil, fuel, hydraulic, transmission, and differential filter bank.







SPECIFICATIONS

Engine	620G/GP		
Manufacturer and Model	John Deere PowerTech™ PSS 6.8L	John Deere PowerTech™ Plus 6.8L	John Deere PowerTech™ 6.8L
Non-Road Emission Standard	EPA Final Tier 4/EU Stage V	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II
Cylinders	6	6	6
Displacement	6.8L (414 cu. in.)	6.8L (414 cu. in.)	6.8L (414 cu. in.)
Net Engine Power			
Gear 1	112 kW (150 hp)	112 kW (150 hp)	112 kW (150 hp)
Gear 2	123 kW (165 hp)	123 kW (165 hp)	123 kW (165 hp)
Gear 3	134 kW (180 hp)	130 kW (175 hp)	130 kW (175 hp)
Gear 4	142 kW (190 hp)	134 kW (180 hp)	134 kW (180 hp)
Gear 5	149 kW (200 hp)	142 kW (190 hp)	138 kW (185 hp)
Gear 6	153 kW (205 hp)	146 kW (195 hp)	138 kW (185 hp)
Gear 7	157 kW (210 hp)	149 kW (200 hp)	138 kW (185 hp)
Gear 8	160 kW (215 hp)	149 kW (200 hp)	138 kW (185 hp)
Net Peak Torque	1005 Nm (750 lbft.)	915 Nm (682 lbft.)	831 Nm (620 lbft.)
Net Torque Rise	40%	37%	44%
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled
Lubrication	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler
Air Cleaner With Restriction Indicator	Dual element, dry	Dual element, dry	Dual element, dry
Cooling	Juan element, ally	Juan enement, any	Dadi. elemene, ary
Engine Coolant, Extended Life, Rating	–37 deg. C (–34 deg. F)		
Powertrain	s, acg. c (s . acg)		
Transmission	Direct-drive John Deere PowerShift Plus™	, modulated shift-on-the-go, Event-Based !	Shifting (FBS), inching pedal: independent
		ation and cooling system with 117-L/min. (3	
Gears	transmission reservoir with separate miti	ation and cooming system with 117 Emin. (2	or gpini, gear painip
Forward	8		
Reverse	8		
Maximum Travel Speeds	No tire slip at 2,180 rpm, 14.0-R24 tires		No tire slip at 2,180 rpm, 14.0-R24 tires
Gear 1	4.0 km/h (2.5 mph)	Gear 5	16.4 km/h (10.2 mph)
Gear 2	5.6 km/h (3.5 mph)	Gear 6	23.2 km/h (14.4 mph)
Gear 3	7.7 km/h (4.8 mph)	Gear 7	32.3 km/h (20.1 mph)
Gear 4	10.9 km/h (6.8 mph)	Gear 8	45.5 km/h (28.3 mph)
Front Axle	Heavy-duty welded fabrication	Geal o	א כ.כד ווווא וו (בט. ווויא כ.כד
Oscillation (total)	32 deg.		
Wheel Lean Angle (each direction)	20 deg.		
Differentials		h type can be applied on-the-go; selectabl	a manual or automatic differential lock
Steering (all models include		r maneuverability and productivity; crab st	
steering (an inoders include steering wheel)		de-slope stability; return-to-straight cont	
Turning Radius (front steer and	7.21 m (284 in.) (23 ft. 8 in.)	de-slope stability, return-to-straight cont	Tol Iliciadea ili diade Fio (dF) optioli
	7.21111 (204 111.) (23 11. 6 111.)		
articulation)	22 deg.		
Articulation (both right and left) Final Drives	Inboard-mounted planetary sealed in coo	alad filtarad ail	
Brakes			and applied filtered ail, both independent
Didres	systems effective on all 4 tandem wheels	nultiple wet-disc brakes sealed in pressuriz	ea, coolea, iliterea oli, botti iliaepellaelit
Drimary and Sacandamy Prokes			d filtered ail multi diss (ISO 3/EO)
Primary and Secondary Brakes		m pivot, self-adjusting, sealed in cooled an ly released, oil cooled, self-adjusting (ISO 3	
Parking Brake	Automatically spring applied, hydraulical	ly released, oil cooled, self-adjusting (ISO 3	450)
Hydraulics	Classed assets asset	-di (DCLS) : 11	
Type		ad-sensing (PCLS), variable-displacement p	DISTOR 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.)		





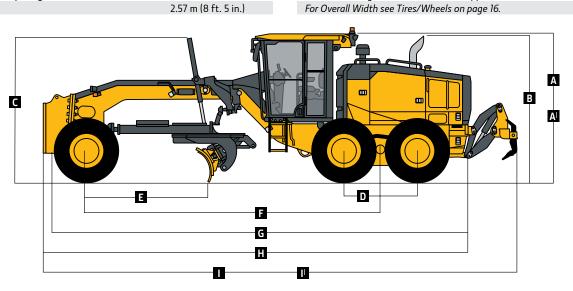
Blade Function	620G/GP	
All-hydraulic, industry-standard lever placem	nent of blade-function controls; includes float position; 7 dis	crete saddle positions
Blade Range		
Lift Above Ground	490 mm (19.3 in.)	
Blade Side Shift (right or left)	683 mm (26.9 in.)	
Pitch at Ground Line		
Forward	42 deg.	
Back	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 V	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Voltage	24 volt	24 volt
Number of Batteries	2	2
Battery Capacity	1,400 CCA	950 CCA
Reserve Capacity	440 min.	190 min.
Amp-Hour Rating	224 amp-hour	110 amp-hour
Alternator Rating		
Base	130 amp	100 amp
Optional	200 amp	130 amp
Lights	Driving lights; 2 high- and 2 low-beam halogen headlights; and hazard warning lights	front and rear LED turn signals and marker lights; LED brake
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)		
Welded box construction machined for flatne	ess and double ball-and-socket pivot connection	
Circle		
Welded construction, heat-treated, and macl	hined for flatness	
	Standard Circle	Premium Circle
Circle Diameter	1524 mm (60 in.)	1524 mm (60 in.)
Rotation	360 deg.	360 deg.
Surface	Quick-change bronze or nylon wear inserts	Sealed and lubricated roller element slewing bearing
Pinion/Ring-Gear Connection	Adjustable backlash and open for serviceability	No adjustment; fully sealed and lubricated
Drive	Hydraulic motor and worm gear with positive lock	Hydraulic motor and worm gear with positive lock
Slip Clutch	Option	Standard
Circle Side Shift (right and left)	787 mm (31 in.)	787 mm (31 in.)
Moldboard		
	gth; wear-resistant, high-carbon steel and reversible end bits	s; blade side-shift wear system includes quick-change
	kscrew system	
replaceable wear inserts and quick-adjust jac		
	ckscrew system 3.66 m (144 in.) (12 ft. 0 in.) 610 mm (24 in.)	



Cutting Edge	620G/GP			
Dura-Max™ through-hardened steel edge				
Thickness	16 mm (0.62 in.)			
Width	152 mm (6 in.)			
Scarifiers				
	Front		Mid-mount	
Туре	V-type toolbar with 2-pitch positions a	and hydraulic float	Radial linkage, with 3-pitch positions a	n NeverGrease™ pin joints; V-type manua and hydraulic float
Width of Cut	1.20 m (48 in.) (4 ft. 0 in.)		1.19 m (46.7 in.) (3 f	ft. 11 in.)
Number of Shanks/Teeth	5 (maximum capacity 9)		11	
Lift Above Ground	589 mm (23.2 in.)		335 mm (13.2 in.)	
Maximum Depth	335 mm (13.2 in.)		325 mm (12.8 in.)	
Shank				
Spacing	146 mm (5.75 in.)		117 mm (4.6 in.)	
Size	25 x 76 mm (1 x 3 in.)		25 x 76 mm (1 x 3 ir	1.)
Front Lift Group (Balderson-style)				
Parallel linkage, mechanical pins, and hydraul Lift	ic float			
Above Ground (top of tube)	1864 mm (73.4 in.)			
Range	988 mm (38.9 in.)			
Rear Ripper/Scarifier	וווו כ.טכן וווווו סטכ			
Parallel linkage, with NeverGrease pin joints,	hydraulic float, and integrated hitch			
i araner ilinage, with Neverdrease pin Jollits,	Ripper		Scarifier	
Width of Cut	2.21 m (87.2 in.) (7 ft. 3 in.)		2.18 m (86 in.) (7 ft	+ 2 in 1
Number of Shanks/Teeth	3 (maximum capacity 5)			
Lift Above Ground	602 mm (23.7 in.)		810 mm (31.9 in.)	aximum capacity 9)
Maximum Depth	426 mm (16.8 in.)		323 mm (12.7 in.)	
·	420 11111 (10.0 111.)		323 11111 (12./ 111.)	
Force	0.202 (20.500 -)			
Penetration	9,302 kg (20,508 lb.)		_	
Pry-Out	11,253 kg (24,808 lb.)		_ 25 x 76 mm (1 x 3 ir	- 1
Shank Size	61.5 x 133 mm (2.42 x 5.25 in.)		25 x /6 mm (1 x 3 ir	1.)
Operator Station	1 FORS (150 37 / 0 3005)			
Low-profile cab with ROPS (ISO 3471-2008) a	nd FUPS (ISU 3449-2005)			
Tires/Wheels	12v2/con 2E/c mm /10 := 1 D:=-	1/D2/ or 25/ -	/10 in Dir-	175D25 on 256 may /1/ := 1 D:
Wheel Tread on Crawn	13x24 on 254-mm (10 in.) Rim	14R24 on 254-mm 2.08 m (82.0 in.)	(וט וח.) אוווו	17.5R25 on 356-mm (14 in.) Rim
Wheel Tread on Ground Overall Width	2.08 m (82 in.)			2.16 m (85.0 in.)
	2.49 m (98 in.)	2.49 m (98.0 in.)		2.64 m (104.0 in.)
Ground Clearance (front axle)	557 mm (21.9 in.)	587 mm (23.1 in.)		587 mm (23.1 in.)
Serviceability Pofill Connection	EDA Final Tips 4/5U.St- V		EDA T: 2/EU.C:	and EDAT: 2/EU.C.
Refill Capacities	EPA Final Tier 4/EU Stage V			ge IIIA and EPA Tier 2/EU Stage II
Fuel Tank Discol Exhaust Fluid (DEE) Tank	416.5 L (110 gal.)		303 L (80 gal.)	
Diesel Exhaust Fluid (DEF) Tank	22.5 L (6 gal.)		- //(0 /11 6!)	
Cooling System	51.0 L (13.5 gal.)		44.0 L (11.6 gal.)	
Engine Oil With Filter	31.5 L (8.3 gal.)		26.0 L (6.9 gal.)	
Transmission Fluid	28.4 L (7.5 gal.)		28.4 L (7.5 gal.)	
Differential Housing	38.0 L (10 gal.)		38.0 L (10 gal.)	
Tandem Housings (each)	74.0 L (19.5 gal.)		74.0 L (19.5 gal.)	
Circle Gearbox	5.7 L (1.5 gal.)		5.7 L (1.5 gal.)	
Hydraulic Reservoir	60.5 L (16 gal.)		53.0 L (14 gal.)	
Operating Weights				
With Full Fuel Tank, 3.66-m x 610-mm x				
22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard				
With 152-mm x 16-mm (6 in. x % in.) Cutting				
Edges, 14-24 Bias L2 Tires, and 79-kg (175 lb.)	EDA Final Tion (/FU Str. 1/		EDA T: 2 /EU C:	as IIIA and EDA Ti 3/EU C
Operator	EPA Final Tier 4/EU Stage V			ge IIIA and EPA Tier 2/EU Stage II *
Front	4193 kg (9,243 lb.)		4222 kg (9,308 lb.)	
Rear	11 577 kg (25,523 lb.)		10 681 kg (23,548 l	
Total Typical Operating Weight With Front Push Block, Rear Ripper/Scarifier, and Other	15 770 kg (34,767 lb.)		14 904 kg (32,857 l	u.j
Equipment				
Front	4940 kg (10,890 lb.)		5096 kg /11 225 IL 1	
- FIGURE	474U KU UU 09U ID 1		5096 kg (11,235 lb.)	
Rear	13 386 kg (29,510 lb.)		12 439 kg (27,423 lb	
Rear Total	13 386 kg (29,510 lb.) 18 325 kg (40,400 lb.)		17 535 kg (38,658 ll	b.)
Rear	13 386 kg (29,510 lb.)			b.)

Option Weights	620G/GP
Moldboards With Through-Hardened Dura-Ma	ax
Cutting Edge	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x 1/8)	
with 152-mm x 16-mm (6 in. x 5% in.) cutting 6	edge
and 16-mm (⅓ in.) hardware	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x $\frac{1}{8}$	
with 203-mm x 19-mm (8 in. x $\frac{3}{4}$ in.) cutting	edge
and 16-mm (% in.) hardware	
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x 1/8	, , , , ,
with 152-mm x 16-mm (6 in. x 5% in.) cutting e	edge
and 16-mm (% in.) hardware	
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/8	, , , , , , , , , , , , , , , , , , , ,
with 203-mm x 19-mm (8 in. x ¾ in.) cutting	edge
and 16-mm (% in.) hardware	
Extensions, 610 mm (2 ft.) (right or left)	316 (255)
For Use With 610-mm (24 in.) Moldboards Overlay End Bits, Reversible (one pair)	116 kg (255 lb.)
, , , , , , , , , , , , , , , , , , , ,	10 E k = (42 lb)
For 152-mm (6 in.) Cutting Edge For 203-mm (8 in.) Cutting Edge	19.5 kg (43 lb.) 23 kg (51 lb.)
Circle-Drive Slip Clutch	9 kg (20 lb.)
Circle	3 kg (20 lb.)
Standard	0 kg (0 lb.)
Premium	289 kg (638 lb.)
Moldboard Impact-Absorption System	43 kg (95 lb.)
Ripper, 3 Shank, No Scarifier	1052 kg (2,319 lb.)
Ripper/Scarifier, Rear Mounted With Hitch and F	
Shanks (3)	
Scarifier Shanks With Teeth (9 for rear ripper/sca	arifier) 68 kg (150 lb.)
Rear Counterweight With Integral Rear Hitch	727 kg (1,603 lb.)
Rear Hitch	54.4 kg (120 lb.)
Push Block, Front	907 kg (2,000 lb.)
Scarifier	-
Front Mount With Teeth (5)	831 kg (1,833 lb.)
Mid-Mount With Teeth (11)	1481 kg (3,265 lb.)
Front Lift Group (Balderson-style)	763 kg (1,682 lb.)
Machine Dimensions	
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
A l 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.)

0	6306 (6B
Option Weights (continued)	620G/GP
Tires	
13.00-24, 12 PR G2	–79 kg (–174 lb.)
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	
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	
Front	99 kg (218 lb.)
Rear	141 kg (310 lb.)
Low Cab With Opening Front and Side Windows	14.5 kg (32 lb.)
Premium Air-Suspension, Heated Seat With Adjustable	13 kg (28 lb.)
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	J · · ·
10 Halogen Lights	4.5 kg (10 lb.)
18 Halogen Lights	8 kg (18 lb.)
18 LED Lights	7 kg (16 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)	3 kg (13 18.)
F Wheelbase	6.16 m (20 ft. 3 in.)
G Overall Length	8.89 m (29 ft. 2 in.)
H Overall Length With Scarifier	9.69 m (31 ft. 9 in.)
I Overall Length With Push Block and Ripper	9.99 m (32 ft. 9 in.)
Overall Length With Fush Block and Ripper Overall Length With Scarifier and Ripper	10.59 m (34 ft. 9 in.)
i Overali Length with Stafffer and Ripper	10.34 11. 3 111.)







Engine	670G/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 V	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	134 kW (180 hp)	134 kW (180 hp)	134 kW (180 hp)
Gear 2	142 kW (190 hp)	142 kW (190 hp)	142 kW (190 hp)
Gear 3	153 kW (205 hp)	149 kW (200 hp)	149 kW (200 hp)
Gear 4	157 kW (210 hp)	153 kW (205 hp)	153 kW (205 hp)
Gear 5	164 kW (220 hp)	157 kW (210 hp)	157 kW (210 hp)
Gear 6	168 kW (225 hp)	164 kW (220 hp)	164 kW (220 hp)
Gear 7	172 kW (230 hp)	168 kW (225 hp)	168 kW (225 hp)
Gear 8	175 kW (235 hp)	172 kW (230 hp)	172 kW (230 hp)
Net Peak Torque	1225 Nm (913 lbft.)	1196 Nm (892 lbft.)	1196 Nm (892 lbft.)
Net Torque Rise	56%	56%	56%
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled
_ubrication	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™	, modulated shift-on-the-go, Event-Based :	Shifting (EBS), inching pedal; independent
	transmission reservoir with separate filtra	ation and cooling system with 117-L/min. (3	31 gpm) gear pump
Gears	'	,	31 - 3 - 1
Forward	8		
Reverse	8		
Maximum Travel Speeds	No tire slip at 2,180 rpm, 14.0-R24 tires		No tire slip at 2,180 rpm, 14.0-R24 tires
Gear 1	4.0 km/h (2.5 mph)	Gear 5	16.4 km/h (10.2 mph)
Gear 2	5.6 km/h (3.5 mph)	Gear 6	23.2 km/h (14.4 mph)
Gear 3	7.7 km/h (4.8 mph)	Gear 7	32.3 km/h (20.1 mph)
Gear 4	10.9 km/h (6.8 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	3	h type can be applied on-the-go; selectabl	e manual or automatic differential lock
Steering (all models include		r maneuverability and productivity; crab st	
steering wheel)		de-slope stability; return-to-straight cont	
Turning Radius (front steer and	7.21 m (284 in.) (23 ft. 8 in.)	ac stope stability, retain to straight cont	To meladea in diade i 10 (di / option
articulation)	7.21111 (23 111.) (23 11. 3 11.)		
Articulation (both right and left)	22 deg.		
Final Drives	Inboard-mounted planetary sealed in coo	oled filtered oil	
Brakes	, ,	nultiple wet-disc brakes sealed in pressuriz	ed cooled filtered oil: both independent
Diakes	systems effective on all 4 tandem wheels	·	ica, coolea, interea on, both macpenaent
Primary and Secondary Brakes		n pivot, self-adjusting, sealed in cooled an	d filtared oil multi disc (ISO 3/50)
Parking Brake		y released, oil cooled, self-adjusting (ISO 3	
Hydraulics	Automaticany spring applied, nyurauncan	y released, oil cooled, sell-adjusting (150 3	JUCE
•	Closed contar proceure componented la	ad capcing (PCLS) variable displacement	piston numn
Type	·	ad-sensing (PCLS), variable-displacement p	Distoil pullip
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.)		





While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Height (measured along arc, including

cutting edge) Thickness 610 mm (24 in.)

22 mm (0.88 in.)

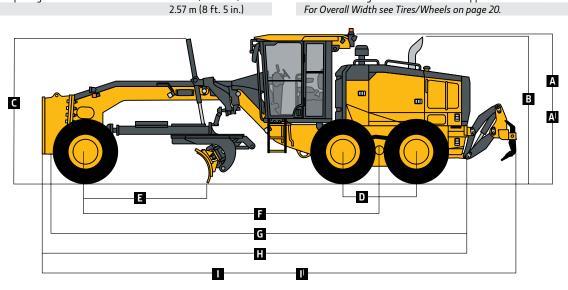
Blade Function	670G/GP	
All-hydraulic, industry-standard lever placem	ent of blade-function controls; includes float position; 7 disc	rete saddle positions
Blade Range		·
Lift Above Ground	490 mm (19.3 in.)	
Blade Side Shift (right or left)	683 mm (26.9 in.)	
Pitch at Ground Line		
Forward	42 deg.	
Back	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	Jo deg.	
At Maximum Operating Weight	15 501 kg (34,173 lb.)	
Electrical	12 20 mg (2 1)11 2 1217	
Solid-state load center and sealed-switch		
module	EPA Final Tier 4/EU Stage V	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	224 amp-noui	224 anip-noui
Base	130 amp	100 amp
Optional	200 amp	130 amp
•	,	
Lights	and hazard warning lights	front and rear LED turn signals and marker lights; LED brake
Mainframe	and nazara nanning ngnes	
Туре	Welded box construction	
Width (minimum)	307 mm (12.1 in.)	
Height (minimum)	307 mm (12.1 in.)	
Thickness	507 mm (12m m)	
Side	16 mm (0.63 in.)	
Top and Bottom Plate	23 mm (0.89 in.)	
Modulus	25 mm (0.05 m.)	
Minimum Vertical Section	1445 cm³ (88 cu. in.)	
Average Vertical Section at Saddle	2245 cm³ (137 cu. in.)	
Draft Frame (drawbar)	2243 CIII (137 Cu. III.)	
	ess with double ball-and-socket pivot connection	
Circle	ess with double ball-and-socker pivot connection	
	J. S S	
Welded construction, heat-treated, machine		Premium Circle
Circle Diameter	Standard Circle	
	1524 mm (60 in.)	1524 mm (60 in.)
Rotation	360 deg.	360 deg.
Surface	Quick-change bronze or nylon wear inserts	Sealed and lubricated roller element slewing bearing
Pinion/Ring-Gear Connection	Adjustable backlash and open for serviceability	No adjustment; fully sealed and lubricated
Drive	Hydraulic motor and worm gear with positive lock	Hydraulic motor and worm gear with positive lock
Slip Clutch	Option	Standard
Circle Side Shift (right and left)	787 mm (31 in.)	787 mm (31 in.)
Moldboard		
	gth; wear-resistant, high-carbon steel and reversible end bits	; blade side-shift wear system includes quick-change
replaceable wear inserts and quick-adjust jac	•	
Base Length	3.66 m (144 in.) (12 ft. 0 in.)	

670G/GP

Cutting Edge	670G/GP	
Dura-Max™ through-hardened steel edge		
Thickness	16 mm (0.62 in.)	
Width	152 mm (6 in.)	
Scarifiers	152 11111 (4 1111)	
	Front	Mid-mount
Туре	V-type toolbar with 2-pitch positions and hydraulic float	Radial linkage, with NeverGrease™ pin joints; V-type manual 3-pitch positions and hydraulic float
Width of Cut	1.20 m (48 in.) (4 ft. 0 in.)	1.19 m (46.7 in.) (3 ft. 11 in.)
Number of Shanks/Teeth	5 (maximum capacity 9)	11
Lift Above Ground	589 mm (23.2 in.)	335 mm (13.2 in.)
Maximum Depth	335 mm (13.2 in.)	325 mm (12.8 in.)
Shank		
Spacing	146 mm (5.75 in.)	117 mm (4.6 in.)
Size	25 x 76 mm (1 x 3 in.)	25 x 76 mm (1 x 3 in.)
Front Lift Group (Balderson-style)		
Parallel linkage, mechanical pins, and 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 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		
Penetration	9526 kg (21,000 lb.)	_
Pry-Out	12 580 kg (27,734 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		
	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		
Refill Capacities	EPA Final Tier 4/EU Stage V	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Fuel Tank	416.5 L (110 gal.)	416.5 L (110 gal.)
Diesel Exhaust Fluid (DEF) Tank	22.5 L (6 gal.)	
Cooling System	55.0 L (14.5 gal.)	48.5 L (12.8 gal.)
Engine Oil With Filter	28.4 L (7.5 gal.)	28.0 L (7.4 gal.)
Transmission Fluid	28.4 L (7.5 gal.)	28.4 L (7.5 gal.)
Differential Housing	38.0 L (10 gal.)	38.0 L (10 gal.)
Tandem Housings (each)	74.0 L (19.5 gal.)	74.0 L (19.5 gal.)
Circle Gearbox	5.7 L (1.5 gal.)	5.7 L (1.5 gal.)
Hydraulic Reservoir	60.5 L (16 gal.)	53.0 L (14 gal.)
Operating Weights		
With Full Fuel Tank, 3.66-m x 610-mm x		
22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard		
With 152-mm x 16-mm (6 in. x % in.) Cutting		
Edges, 14-24 Bias L2 Tires, and 79-kg (175 lb.)	EDA E: IT: //EU.C. V	EDAT: 2/EUG: WA LEDAT: 2/EUG: W
Operator	EPA Final Tier 4/EU Stage V	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Front	4193 kg (9,245 lb.)	4203 kg (9,265 lb.)
Rear	11 807 kg (26,030 lb.)	11 327 kg (24,972 lb.)
Total	16 000 kg (35,275 lb.)	15 530 kg (34,237 lb.)
Typical Operating Weight With Front Push Block, Rear Ripper/Scarifier, and Other		
Equipment	EE22 (~ (1217E IL)	E/.99 kg (12100 lb.)
Front	5522 kg (12,175 lb.)	5488 kg (12,100 lb.)
Rear	13 708 kg (30,220 lb.)	13 063 kg (28,800 lb.)
Total	19 230 kg (42,395 lb.)	18 552 kg (40,900 lb.)
Maximum Operating Weight	24 948 kg (55,000 lb.)	24 948 kg (55,000 lb.)

	otion Weights	670G/GP
M	oldboards With Through-Hardened Dura-Max	
Cu	tting Edge	
	3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x % in.)	0 kg (0 lb.)
	with 152-mm x 16-mm (6 in. x $\%$ in.) cutting edge	
	and 16-mm (⅓ in.) hardware	
	3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x % in.)	45 kg (99 lb.)
	with 203-mm x 19-mm (8 in. x $\frac{3}{4}$ in.) cutting edge	
	and 16-mm (⅓ 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 $\frac{3}{4}$ in.) cutting edge	
	and 16-mm (% in.) hardware	
	4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x % in.)	105 kg (231 lb.)
	with 152-mm x 16-mm (6 in. x $\frac{1}{2}$ in.) cutting edge	
	and 16-mm (% in.) hardware	
	4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x 1/8 in.)	157.4 kg (347 lb.)
	with 203-mm x 19-mm (8 in. x ¾ in.) cutting edge	
	and 16-mm (% 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 ¾ in.) cutting edge	
	and 16-mm (% in.) hardware	2611 /575 !! \
	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. $x \frac{3}{4}$ in.) cutting edge	
	and 19-mm (¾ in.) hardware	
EX	tensions, 610 mm (2 ft.) (right or left) For Use With 610-mm (24 in.) Moldboards	116 /255 \
		116 kg (255 lb.)
0,	For Use With 686-mm (27 in.) Moldboards	120 kg (265 lb.)
U	verlay End Bits, Reversible (one pair)	10 F I (/2 IL)
	For 152-mm (6 in.) Cutting Edge	19.5 kg (43 lb.) 23 kg (51 lb.)
Ша	For 203-mm (8 in.) Cutting Edge eavy-Duty Dual-Input Circle-Drive Gearbox	23 kg (51 lb.)
		3 · · · ·
	rcle-Drive Slip Clutch	9 kg (20 lb.)
	Standard	0 10 16 1
	Premium Premium	0 kg (0 lb.)
		289 kg (638 lb.) 43 kg (95 lb.)
	oldboard Impact-Absorption System oper/Scarifier, Rear Mounted With Hitch and Ripper	1139 kg (2,510 lb.)
	anks (3)	1139 Kg (2,510 lb.)
	arifier Shanks With Teeth (9 for rear ripper/scarifier)	68 kg (150 lb.)
	pper Shanks and Teeth (2)	63 kg (139 lb.)
	ar Counterweight With Integral Rear Hitch	727 kg (1,603 lb.)
	achine Dimensions	727 kg (1,003 lb.)
A	Height to Top of Cab	3.18 m (10 ft. 5 in.)
A	· .	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.)
E	Blade Base	2.57 m (8 ft. 5 in.)
_		

Option Weights (continued)	670G/GP
Rear Hitch	54.4 kg (120 lb.)
Push Block, Front	1338 kg (2,950 lb.)
Scarifier	
Front Mount With Teeth (5)	831 kg (1,833 lb.)
Mid-Mount With Teeth (11)	1481 kg (3,265 lb.)
Front Lift Group (Balderson-style)	763 kg (1,682 lb.)
Tires	_
14.00-24, 12 PR G2	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	(2)
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	05 kg (14 4 lb.)
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	207 kg (300 lb.)
Front	99 kg (218 lb.)
Rear	141 kg (310 lb.)
Low Cab With Opening Front and Side Windows	14.5 kg (32 lb.)
Premium Air-Suspension, Heated Seat With Adjustable	13 kg (28 lb.)
Arm- and Headrests	13 kg (20 lb.)
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)	14 kg (31 lb.)
Secondary Steering	26 kg (58 lb.)
Beacon Bracket	8 kg (18 lb.)
Fire Extinguisher	14.5 kg (32 lb.)
Lighting Packages	17.5 kg (52 lb.)
10 Halogen Lights	4.5 kg (10 lb.)
18 Halogen Lights	8 kg (18 lb.)
18 LED Lights	7 kg (16 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 Machine Dimensions (continued)	9 kg (19 lb.)
F Wheelbase	6.16 m (20 ft. 3 in.)
1111231232	
G Overall Length	8.89 m (29 ft. 2 in.)
H Overall Length With Scarifier	9.69 m (31 ft. 9 in.)
I Overall Length With Push Block and Ripper	9.99 m (32 ft. 9 in.)
I ^I Overall Length With Scarifier and Ripper	10.59 m (34 ft. 9 in.)







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 V	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	149 kW (200 hp)	149 kW (200 hp)	149 kW (200 hp)
Gear 2	157 kW (210 hp)	157 kW (210 hp)	157 kW (210 hp)
Gear 3	168 kW (225 hp)	164 kW (220 hp)	164 kW (220 hp)
Gear 4	172 kW (230 hp)	168 kW (225 hp)	168 kW (225 hp)
Gear 5	179 kW (240 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	187 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	1314 Nm (980 lbft.)	1288 Nm (961 lbft.)	1288 Nm (961 lbft.)
Net Torque Rise	54%	55%	55%
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled
Lubrication	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler
Air Cleaner With Restriction Indicator	Dual element, dry	Dual element, dry	Dual element, dry
Cooling	Buar ciement, ary	Buar cicinent, ary	Baar cicincite, ary
Engine Coolant, Extended Life, Rating	–37 deg. C (–34 deg. F)		
Powertrain	-57 deg. c (-54 deg. 17		
Fransmission	Direct drive John Deere PowerShift Plus™	, modulated shift-on-the-go, Event-Based 9	Shifting (ERS), inching padal: independent
ii diisiiiissioii		= = = = = = = = = = = = = = = = = = = =	=
Gears	transmission reservoir with separate mit	ation and cooling system with 117-L/min. (3	or gpini, gear punip
Forward	8		
Reverse	8		
	=		N - +:!:+ 2100 1/ 0 D2/ +:
Maximum Travel Speeds	No tire slip at 2,180 rpm, 14.0-R24 tires	C 5	No tire slip at 2,180 rpm, 14.0-R24 tires
Gear 1	4.0 km/h (2.5 mph)	Gear 5	16.4 km/h (10.2 mph)
Gear 2	5.6 km/h (3.5 mph)	Gear 6	23.2 km/h (14.4 mph)
Gear 3	7.7 km/h (4.8 mph)	Gear 7	32.3 km/h (20.1 mph)
Gear 4	10.9 km/h (6.8 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; selectabl	
Steering (all models include		or maneuverability and productivity; crab st	
steering wheel)		ide-slope stability; return-to-straight cont	rol included in Grade Pro (GP) option
Turning Radius (front steer and	7.21 m (284 in.) (23 ft. 8 in.)		
articulation)			
Articulation (both right and left)	22 deg.		
Final Drives	Inboard-mounted planetary sealed in coo		
Final Drives	Inboard-mounted planetary sealed in coor Foot-controlled, hydraulically operated, r	multiple wet-disc brakes sealed in pressuriz	ed, cooled, filtered oil; both independent
Final Drives Brakes	Inboard-mounted planetary sealed in coc Foot-controlled, hydraulically operated, r systems effective on all 4 tandem wheels	multiple wet-disc brakes sealed in pressuriz	
Final Drives Brakes Primary and Secondary Brakes	Inboard-mounted planetary sealed in coo Foot-controlled, hydraulically operated, r systems effective on all 4 tandem wheels Hydraulically actuated, inboard of tander	nultiple wet-disc brakes sealed in pressuriz ; m pivot, self-adjusting, sealed in cooled an	d filtered oil, multi-disc (ISO 3450)
Final Drives Brakes Primary and Secondary Brakes Parking Brake	Inboard-mounted planetary sealed in coo Foot-controlled, hydraulically operated, r systems effective on all 4 tandem wheels Hydraulically actuated, inboard of tander	multiple wet-disc brakes sealed in pressuriz	d filtered oil, multi-disc (ISO 3450)
Final Drives Brakes Primary and Secondary Brakes Parking Brake Hydraulics	Inboard-mounted planetary sealed in coo Foot-controlled, hydraulically operated, r systems effective on all 4 tandem wheels Hydraulically actuated, inboard of tander Automatically spring applied, hydraulical	nultiple wet-disc brakes sealed in pressuriz s m pivot, self-adjusting, sealed in cooled an ly released, oil cooled, self-adjusting (ISO 3	d filtered oil, multi-disc (ISO 3450) 1450)
Final Drives Brakes Primary and Secondary Brakes	Inboard-mounted planetary sealed in coo Foot-controlled, hydraulically operated, r systems effective on all 4 tandem wheels Hydraulically actuated, inboard of tander Automatically spring applied, hydraulical	nultiple wet-disc brakes sealed in pressuriz ; m pivot, self-adjusting, sealed in cooled an	d filtered oil, multi-disc (ISO 3450) 1450)
Final Drives Brakes Primary and Secondary Brakes Parking Brake Hydraulics Type	Inboard-mounted planetary sealed in coor Foot-controlled, hydraulically operated, r systems effective on all 4 tandem wheels Hydraulically actuated, inboard of tander Automatically spring applied, hydraulical Closed-center, pressure-compensated loo 212 L/min. (56 gpm)	nultiple wet-disc brakes sealed in pressuriz s m pivot, self-adjusting, sealed in cooled an ly released, oil cooled, self-adjusting (ISO 3	d filtered oil, multi-disc (ISO 3450) 1450)
Final Drives Brakes Primary and Secondary Brakes Parking Brake Hydraulics	Inboard-mounted planetary sealed in coo Foot-controlled, hydraulically operated, r systems effective on all 4 tandem wheels Hydraulically actuated, inboard of tander Automatically spring applied, hydraulical Closed-center, pressure-compensated los	nultiple wet-disc brakes sealed in pressuriz s m pivot, self-adjusting, sealed in cooled an ly released, oil cooled, self-adjusting (ISO 3	d filtered oil, multi-disc (ISO 3450) 1450)



22 mm (0.88 in.)



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cutting edge) Thickness

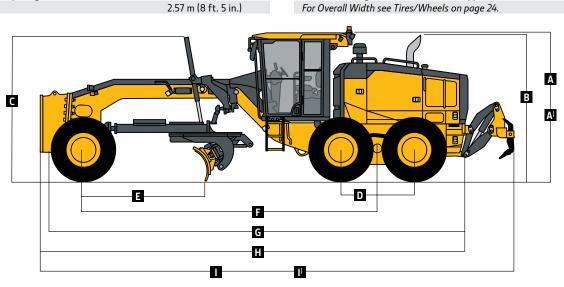
	<u>-</u>	
Blade Function	770G/GP	
All-hydraulic, industry-standard lever placem	ent of blade-function controls; includes float position; 7 dis	crete saddle positions
Blade Range		
Lift Above Ground	490 mm (19.3 in.)	
Blade Side Shift (right or left)	683 mm (26.9 in.)	
Pitch at Ground Line		
Forward	42 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 V	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Voltage	24 volt	24 volt
Number of Batteries	2	2
Battery Capacity	1,400 CCA	1,400 CCA
Reserve Capacity	440 min.	440 min.
Amp-Hour Rating	224 amp-hour	224 amp-hour
Alternator Rating		
Base	130 amp	100 amp
Optional	200 amp	130 amp
Lights		front and rear LED turn signals and marker lights; LED brake
9	and hazard warning lights	none and rear 223 tarm signals and marker rights, 223 stake
Mainframe		
Туре	Welded box construction	
Width (minimum)	307 mm (12.1 in.)	
Height (minimum)	307 mm (12.1 in.)	
Thickness	507 mm (12mm)	
Side	16 mm (0.63 in.)	
Top and Bottom Plate	23 mm (0.89 in.)	
Modulus	25 (6.65)	
Minimum Vertical Section	1770 cm³ (108 cu. in.)	
Average Vertical Section at Saddle	2245 cm³ (137 cu. in.)	
Draft Frame (drawbar)	22-13 cm (137 cd. m.)	
	91 1 11 1 11 1 1 1 1 1 2 2 2 2	
	ess with dolinie nall-and-socket nivot connection	
	ess with double ball-and-socket pivot connection	
Circle		
	d for flatness	Pramium Circle
Circle Welded construction, heat-treated, machine	d for flatness Standard Circle	Premium Circle
Circle Welded construction, heat-treated, machine Circle Diameter	d for flatness Standard Circle 1524 mm (60 in.)	1524 mm (60 in.)
Circle Welded construction, heat-treated, machine Circle Diameter Rotation	d for flatness Standard Circle 1524 mm (60 in.) 360 deg.	1524 mm (60 in.) 360 deg.
Circle Welded construction, heat-treated, machine Circle Diameter Rotation Surface	d for flatness Standard Circle 1524 mm (60 in.) 360 deg. Quick-change bronze or nylon wear inserts	1524 mm (60 in.) 360 deg. Sealed and lubricated roller element slewing bearing
Circle Welded construction, heat-treated, machine Circle Diameter Rotation Surface Pinion/Ring-Gear Connection	d for flatness Standard Circle 1524 mm (60 in.) 360 deg. Quick-change bronze or nylon wear inserts Adjustable backlash and open for serviceability	1524 mm (60 in.) 360 deg. Sealed and lubricated roller element slewing bearing No adjustment; fully sealed and lubricated
Circle Welded construction, heat-treated, machine Circle Diameter Rotation Surface Pinion/Ring-Gear Connection Drive	d for flatness Standard Circle 1524 mm (60 in.) 360 deg. Quick-change bronze or nylon wear inserts Adjustable backlash and open for serviceability Hydraulic motor and worm gear with positive lock	1524 mm (60 in.) 360 deg. Sealed and lubricated roller element slewing bearing No adjustment; fully sealed and lubricated Hydraulic motor and worm gear with positive lock
Circle Welded construction, heat-treated, machine Circle Diameter Rotation Surface Pinion/Ring-Gear Connection Drive Slip Clutch	d for flatness Standard Circle 1524 mm (60 in.) 360 deg. Quick-change bronze or nylon wear inserts Adjustable backlash and open for serviceability Hydraulic motor and worm gear with positive lock Option	1524 mm (60 in.) 360 deg. Sealed and lubricated roller element slewing bearing No adjustment; fully sealed and lubricated Hydraulic motor and worm gear with positive lock Standard
Circle Welded construction, heat-treated, machine Circle Diameter Rotation Surface Pinion/Ring-Gear Connection Drive Slip Clutch Circle Side Shift (right and left)	d for flatness Standard Circle 1524 mm (60 in.) 360 deg. Quick-change bronze or nylon wear inserts Adjustable backlash and open for serviceability Hydraulic motor and worm gear with positive lock	1524 mm (60 in.) 360 deg. Sealed and lubricated roller element slewing bearing No adjustment; fully sealed and lubricated Hydraulic motor and worm gear with positive lock
Circle Welded construction, heat-treated, machine Circle Diameter Rotation Surface Pinion/Ring-Gear Connection Drive Slip Clutch Circle Side Shift (right and left) Moldboard	d for flatness Standard Circle 1524 mm (60 in.) 360 deg. Quick-change bronze or nylon wear inserts Adjustable backlash and open for serviceability Hydraulic motor and worm gear with positive lock Option 787 mm (31 in.)	1524 mm (60 in.) 360 deg. Sealed and lubricated roller element slewing bearing No adjustment; fully sealed and lubricated Hydraulic motor and worm gear with positive lock Standard 787 mm (31 in.)
Circle Welded construction, heat-treated, machine Circle Diameter Rotation Surface Pinion/Ring-Gear Connection Drive Slip Clutch Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher streng	d for flatness Standard Circle 1524 mm (60 in.) 360 deg. Quick-change bronze or nylon wear inserts Adjustable backlash and open for serviceability Hydraulic motor and worm gear with positive lock Option 787 mm (31 in.) gth, wear-resistant, high-carbon steel and reversible end bits	1524 mm (60 in.) 360 deg. Sealed and lubricated roller element slewing bearing No adjustment; fully sealed and lubricated Hydraulic motor and worm gear with positive lock Standard 787 mm (31 in.)
Circle Welded construction, heat-treated, machine Circle Diameter Rotation Surface Pinion/Ring-Gear Connection Drive Slip Clutch Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strengreplaceable wear inserts and quick-adjust jac	d for flatness Standard Circle 1524 mm (60 in.) 360 deg. Quick-change bronze or nylon wear inserts Adjustable backlash and open for serviceability Hydraulic motor and worm gear with positive lock Option 787 mm (31 in.) gth, wear-resistant, high-carbon steel and reversible end bits kscrew system	1524 mm (60 in.) 360 deg. Sealed and lubricated roller element slewing bearing No adjustment; fully sealed and lubricated Hydraulic motor and worm gear with positive lock Standard 787 mm (31 in.)
Circle Welded construction, heat-treated, machine Circle Diameter Rotation Surface Pinion/Ring-Gear Connection Drive Slip Clutch Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher streng	d for flatness Standard Circle 1524 mm (60 in.) 360 deg. Quick-change bronze or nylon wear inserts Adjustable backlash and open for serviceability Hydraulic motor and worm gear with positive lock Option 787 mm (31 in.) gth, wear-resistant, high-carbon steel and reversible end bits	1524 mm (60 in.) 360 deg. Sealed and lubricated roller element slewing bearing No adjustment; fully sealed and lubricated Hydraulic motor and worm gear with positive lock Standard 787 mm (31 in.)

770G/GP

Cutting Edge	770G/GP			
Dura-Max™ through-hardened steel edge	7,00,01			
Thickness	16 mm (0.62 in.)			
Width	152 mm (6 in.)			
Scarifiers	132 11111 (0 111.)			
Scariners	Front		Mid-mount	
Type	V-type toolbar with 2-pitch positions a	nd hydraulic float		NeverGreace™ pip joints: V type manual
Туре		na nyaraulic fioat	3-pitch positions a	
Width of Cut	1.20 m (48 in.) (4 ft. 0 in.)		1.19 m (46.7 in.) (3 f	t. 11 in.)
Number of Shanks/Teeth	5 (maximum capacity 9)		11	
Lift Above Ground	589 mm (23.2 in.)		335 mm (13.2 in.)	
Maximum Depth	335 mm (13.2 in.)		325 mm (12.8 in.)	
Shank				
Spacing	146 mm (5.75 in.)		117 mm (4.6 in.)	
Size	25 x 76 mm (1 x 3 in.)		25 x 76 mm (1 x 3 ir	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			
. a.a.e. minage, with revertiese 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 1
Number of Shanks/Teeth	3 (maximum capacity 5)		None standard (ma	
Lift Above Ground	602 mm (23.7 in.)		810 mm (31.9 in.)	axillium capacity 31
Maximum Depth	426 mm (16.8 in.)		323 mm (12.7 in.)	
Force	420 11111 (10.0 111.)		323 IIIIII (12./ III.)	
	0616 (21,200)			
Penetration	9616 kg (21,200 lb.)		_	
Pry-Out	12 730 kg (28,066 lb.)		_ /1 2:	1
Shank Size	61.5 x 133 mm (2.42 x 5.25 in.)		25 x 76 mm (1 x 3 ir	1.)
Operator Station	1 50 DS (150 37 / 0 3005)			
Low-profile cab with ROPS (ISO 3471-2008) a	nd FOPS (ISO 3449-2005)			
Tires/Wheels	<u> </u>			
	14R24 on 254-mm (10 in.) Rim	17.5R25 on 356-mn	n (14 in.) Rim	550/65R25 on 432-mm (17 in.) Rim
Wheel Tread on Ground	2.08 m (82.0 in.)	2.16 m (85.0 in.)		2.21 m (87.0 in.)
Overall Width	2.49 m (98.0 in.)	2.64 m (104.0 in.)		2.82 m (111.0 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 V		EPA Tier 3/EU Stag	e IIIA and EPA Tier 2/EU Stage II
Fuel Tank	416.5 L (110 gal.)		416.5 L (110 gal.)	
Diesel Exhaust Fluid (DEF) Tank	22.5 L (6 gal.)		_	
Cooling System	55.0 L (14.5 gal.)		48.5 L (12.8 gal.)	
Engine Oil With Filter	28.4 L (7.5 gal.)		28.0 L (7.4 gal.)	
Transmission Fluid	28.4 L (7.5 gal.)		28.4 L (7.5 gal.)	
Differential Housing	38.0 L (10 gal.)		38.0 L (10 gal.)	
Tandem Housings (each)	74.0 L (19.5 gal.)		74.0 L (19.5 gal.)	
Circle Gearbox	5.7 L (1.5 gal.)		5.7 L (1.5 gal.)	
Hydraulic Reservoir	60.5 L (16 gal.)		53.0 L (14 gal.)	
Operating Weights	22.2 2 (1.2 52)			
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 % in.) Cutting				
Edges, 14R24 L2 Tires, and 79-kg (175 lb.)				
Operator	EPA Final Tier 4/EU Stage V		EDA Tion 3/ELLStar	ge IIIA and EPA Tier 2/EU Stage II
Front	4320 kg (9,525 lb.)		4330 kg (9,545 lb.)	
			11 451 kg (25,245 lb	
Rear	12 095 kg (26,665 lb.)		15 780 kg (34,790 l	
Total	16 416 kg (36,190 lb.)		700 kg (34,790 l	υ.,
Typical Operating Weight With Front Push Block, Rear Ripper/Scarifier, and Other				
Equipment	EE00 kg (17 270 lb)		E67E ~ (17 / 00 !!	1
Front	5588 kg (12,320 lb.)		5625 kg (12,400 lb.	
Rear			13 186 kg (29,070 lb	0.)
	13 837 kg (30,505 lb.)			
Total	19 425 kg (42,825 lb.)		18 810 kg (41,470 lb	p.)
				p.)

_	tion Weights	770G/GP				
	oldboards With Through-Hardened Dura-Max tting Edge					
,	3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x $\frac{1}{2}$ in.) with 152-mm x 16-mm (6 in. x $\frac{1}{2}$ in.) cutting edge and 16-mm ($\frac{1}{2}$ in.) hardware	0 kg (0 lb.)				
	3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x $\frac{7}{6}$ in.) with 203-mm x 19-mm (8 in. x $\frac{3}{6}$ in.) cutting edge and 16-mm ($\frac{7}{6}$ in.) hardware	45 kg (99 lb.)				
,	3.96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.) with 203-mm x 19-mm (8 in. x ¾ in.) cutting edge and 16-mm (% in.) hardware	180 kg (396 lb.)				
,	4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ½ in.) with 152-mm x 16-mm (6 in. x ½ in.) cutting edge and 16-mm (½ in.) hardware	105 kg (231 lb.)				
,	$4.27 \mathrm{m} \times 610 \mathrm{mm} \times 22 \mathrm{mm} (14 \mathrm{ft.} \times 24 \mathrm{in.} \times \% \mathrm{in.})$ with 203-mm x 19-mm (8 in. x $\%$ in.) cutting edge and 16-mm ($\%$ in.) hardware	157.4 kg (347 lb.)				
,	4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203-mm x 19-mm (8 in. x ¾ in.) cutting edge and 16-mm (% in.) hardware	251 kg (554 lb.)				
,	4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203-mm x 19-mm (8 in. x ¾ in.) cutting edge and 19-mm (¾ in.) hardware	261 kg (575 lb.)				
	tensions, 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.)				
	erlay 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.)				
	avy-Duty Dual-Input Circle-Drive Gearbox	14 kg (31 lb.)				
	cle-Drive Slip Clutch cle	9 kg (20 lb.)				
	Standard	0 kg (0 lb.)				
	Premium	289 kg (638 lb.)				
Мс	oldboard Impact-Absorption System	43 kg (95 lb.)				
Rip	pper/Scarifier, Rear Mounted With Hitch and Ripper anks (3)	1139 kg (2,510 lb.)				
	arifier Shanks With Teeth (9 for rear ripper/scarifier)	68 kg (150 lb.)				
	oper Shanks and Teeth (2)	63 kg (139 lb.)				
	ar Counterweight With Integral Rear Hitch	727 kg (1,603 lb.)				
	ar Hitch	54.4 kg (120 lb.)				
	achine Dimensions					
Α	Height to Top of Cab	3.18 m (10 ft. 5 in.)				
ΑI	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	2.57 m (8 ft. 5 in.)				

Option Weights (continued)	770G/GP
Push Block, Front	1338 kg (2,950 lb.)
Scarifier	1330 kg (2,330 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.)
Tires	703 kg (1,002 lb.)
14.00-24, 12 PR G2	–220.4 kg (–486 lb.)
17.5-25, 12 PR G2/L2	–106 kg (–234 lb.) 0 kg (0 lb.)
14.00-R24, Radial, G2/L2 General Purpose	
14.00-R24, Radial, G2/L2 Snow	40.8 kg (90 lb.)
17.5-R25, Radial, L2 General Purpose	51.7 kg (114 lb.)
17.5-R25, Radial, G2/L2 Snow	95.3 kg (210 lb.)
17.5-R25, Radial, G3/L3 General Purpose	141.5 kg (312 lb.)
550/65R25 XLD70 G3/L3 Radial, General Purpose	e 495.3 kg (1,092 lb.)
1-Piece Rims	01 (011)
229 mm x 610 mm (9 in. x 24 in.)	0 kg (0 lb.)
330 mm x 635 mm (13 in. x 25 in.)	65.3 kg (144 lb.)
Multi-Piece Rims	
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	99 kg (218 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 Adjustabl	le 13 kg (28 lb.)
Arm- and Headrests	
Coolant Heater	4 kg (9 lb.)
Quick Service	11 kg (24 lb.)
Sound-Absorption Package (machines equipped wit Tier 3/Stage IIIA and Tier 2/Stage II engines only)	h 14 kg (31 lb.)
Secondary Steering	26 kg (58 lb.)
Beacon Bracket	8 kg (18 lb.)
Fire Extinguisher	14.5 kg (32 lb.)
Lighting Packages	_
10 Halogen Lights	4.5 kg (10 lb.)
18 Halogen Lights	8 kg (18 lb.)
18 LED Lights	7 kg (16 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Control	ls 7 kg (15 lb.)
Hydraulics for Front-Mounted Equipment	9 kg (19 lb.)
Machine Dimensions (continued)	
F Wheelbase	6.16 m (20 ft. 3 in.)
G Overall Length	8.89 m (29 ft. 2 in.)
H Overall Length With Scarifier	9.69 m (31 ft. 9 in.)
I Overall Length With Push Block and Ripper	9.99 m (32 ft. 9 in.)
I ^I Overall Length With Scarifier and Ripper	10.59 m (34 ft. 9 in.)
E O	





SZOG/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 V	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	168 kW (225 hp)	164 kW (220 hp)	164 kW (220 hp)			
Gear 2	175 kW (235 hp)	172 kW (230 hp)	172 kW (230 hp)			
Gear 3	187 kW (250 hp)	179 kW (240 hp)	179 kW (240 hp)			
Gear 4	190 kW (255 hp)	183 kW (245 hp)	183 kW (245 hp)			
Gear 5	198 kW (265 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	205 kW (275 hp)	198 kW (265 hp)	198 kW (265 hp)			
Gear 8	209 kW (280 hp)	201 kW (270 hp)	201 kW (270 hp)			
Net Peak Torque	1430 Nm (1,066 lbft.)	1330 Nm (991 lbft.)	1330 Nm (991 lbft.)			
Net Torque Rise	53%	48%	48%			
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled			
Lubrication	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler			
Air Cleaner With Restriction Indicator	Dual element, dry	Dual element, dry	Dual element, dry			
Cooling	Dual ciement, any	Dadi Cicinent, ary	Dual ciement, ary			
Engine Coolant, Extended Life, Rating	–37 deg. C (–34 deg. F)					
Powertrain	37 deg. e (
Transmission	Direct-drive John Deere PowerShift Plus™	, modulated shift-on-the-go, Event-Based	Shifting (FBS), inching nedal: independent			
Transmission		ation and cooling system with 121-L/min. (3	= = :			
Gears	transmission reservoir with separate mit	acion una cooming system with 121 Emini. (sz gpini, gcai panip			
Forward	8					
Reverse	8					
Maximum Travel Speeds	No tire slip at 2,180 rpm, 17.5-R25 tires		No tire slip at 2,180 rpm, 17.5-R25 tires			
Gear 1	3.9 km/h (2.4 mph)	Gear 5	16.7 km/h (10.4 mph)			
Gear 2	5.6 km/h (3.5 mph)	Gear 6	23.3 km/h (14.5 mph)			
Gear 3	7.9 km/h (4.9 mph)	Gear 7	32.2 km/h (20.0 mph)			
Gear 4	10.9 km/h (6.8 mph)	Gear 8	45.0 km/h (28.0 mph)			
Front Axle	Heavy-duty welded fabrication	Geal o	45.0 km/ ii (20.0 mpii)			
Oscillation (total)	32 deg.					
Wheel Lean Angle (each direction)	20 deg.					
Differentials		h type can be applied on-the-go; selectabl	la manual or automatic differential lock			
Steering (all models include		rr type can be applied on-the-go, selectable or maneuverability and productivity; crab si				
steering (all models include steering wheel)		ide-slope stability; return-to-straight cont				
Turning Radius (front steer and	7.21 m (284 in.) (23 ft. 8 in.)	de-slope stability, return-to-straight cont	roi iliciudea ili Grade Pro (GP) optioli			
articulation)	7.21111 (204 111.) (23 11. 6 111.)					
Articulation (both right and left)	22 deg.					
Final Drives	3	alad filtarad ail				
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					
Didkes	systems effective on all 4 tandem wheels		zea, coolea, filterea oli, botti iliaepellaelit			
Drimany and Casandany Prokes	Liver which is a street of the and of the design of the de	, m pivot, self-adjusting, sealed in cooled an	d filtered ail multi disa (ISO 3/EO)			
Primary and Secondary Brakes						
Parking Brake	Automatically spring applied, nydraulical	ly released, oil cooled, self-adjusting (ISO 3	043UJ			
Hydraulics T	Classification and a second se	-di (DCLS)i-bl- dil	-1-1			
Type		ad-sensing (PCLS), variable-displacement _l	piston pump			
Maximum Pump Flow	218 L/min. (57.5 gpm)					
Maximum System Pressure	18 961 kPa (2,750 psi)					
Pump Displacement	90 cm³ (5.5 cu. in.)					



25 mm (1 in.)



While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Thickness

may require mounteations of additions to ensure compile	ance with the local regulations of those countries.	
Blade Function	870G/GP	
	ent of blade-function controls; includes float position; 7 disc	crete 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)		
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 V	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Voltage	24 volt	24 volt
Number of Batteries	2	2
Battery Capacity	1,400 CCA	1,400 CCA
Reserve Capacity	440 min.	440 min.
Amp-Hour Rating	224 amp-hour	224 amp-hour
Alternator Rating		
Base	130 amp	100 amp
Optional	200 amp	130 amp
Lights	Driving lights; 2 high- and 2 low-beam halogen headlights; and hazard warning lights	front and rear LED turn signals and marker lights; LED brake
Mainframe		
Туре	Welded box construction	
Width (minimum)	307 mm (12.1 in.)	
Height (minimum)	307 mm (12.1 in.)	
Thickness		
Side	16 mm (0.63 in.)	
Top and Bottom Plate	30 mm (1.17 in.)	
Modulus		
Minimum Vertical Section	1770 cm ³ (108 cu. in.)	
Average Vertical Section at Saddle	2635 cm³ (161 cu. in.)	
Draft Frame (drawbar)		
Welded box construction machined for flatne	ess with double ball-and-socket pivot connection equipped v	vith quick-change replaceable wear inserts
Circle		
Welded construction, heat-treated, machine	d for flatness, equipped with quick-change replaceable wear	inserts
	Standard Circle	Premium Circle
Circle Diameter	1524 mm (60 in.)	1524 mm (60 in.)
Rotation	360 deg.	360 deg.
Surface	Quick-change bronze or nylon wear inserts	Sealed and lubricated roller element slewing bearing
Pinion/Ring-Gear Connection	Adjustable backlash and open for serviceability	No adjustment; fully sealed and lubricated
Drive	Hydraulic motor and worm gear with positive lock	Hydraulic motor and worm gear with positive lock
Slip Clutch	Option	Standard
Circle Side Shift (right and left)	787 mm (31 in.)	787 mm (31 in.)
Moldboard		
	yth, wear-resistant, high-carbon steel and reversible end bits	; blade side-shift wear system includes quick-change
replaceable wear inserts and quick-adjust jac Base Length	4.27 m (168 in.) (14 ft. 0 in.)	
Height (measured along arc, including	4.27 m (168 in.) (14 ft. 0 in.) 686 mm (27 in.)	
cutting edge)		
Thickness	25 mm (1 in)	

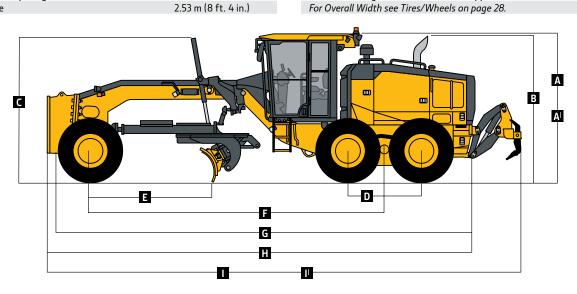
870G/GP

Cutting Edge	870G/GP			
Dura-Max™ through-hardened steel edge				
Thickness	19 mm (0.75 in.)			
Width	203 mm (8 in.)			
Scarifiers	205 11111 (0 111.)			
Scarmers	Front		Mid-mount	
Tune		and budged in float		NeverCrosso™ pip isints V type manual
Type	V-type toolbar with 2-pitch positions a	and nydraulic float	3-pitch positions a	
Width of Cut	1.20 m (48 in.) (4 ft. 0 in.)		1.19 m (46.7 in.) (3	rt. II in.)
Number of Shanks/Teeth	5 (maximum capacity 9)		11	
Lift Above Ground	589 mm (23.2 in.)		335 mm (13.2 in.)	
Maximum Depth	335 mm (13.2 in.)		325 mm (12.8 in.)	
Shank				
Spacing	146 mm (5.75 in.)		117 mm (4.6 in.)	
Size	25 x 76 mm (1 x 3 in.)		25 x 76 mm (1 x 3 ir	1.)
Front Lift Group (Balderson-style)				
Parallel linkage, mechanical pins, and hydraul	ic float			
Lift				
Above Ground (top of tube)	1864 mm (73.4 in.)			
	988 mm (38.9 in.)			
Range	988 mm (38.9 in.)			
Rear Ripper/Scarifier				
Parallel linkage, with NeverGrease pin joints,				
	Ripper		Scarifier	
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				
Penetration	10 240 kg (22,574 lb.)		_	
Pry-Out	13 623 kg (30,034 lb.)		_	
Shank Size	61.5 x 133 mm (2.42 x 5.25 in.)		25 x 76 mm (1 x 3 ir	.)
Operator Station	ווווו לכו א ל.וט וווווו לכו א ל.וט		וו כ א ז) וווווו אי א כב	1.)
	-1 FODS (ISO 37/70 300E)			
Low-profile cab with ROPS (ISO 3471-2008) a	na FUPS (15U 3449-20US)			
Tires/Wheels				
	17.5R25 on 356-mm (14 in.) Rim	550/65R25 on 432	-mm (17 in.) Rim	20.5R25 on 432-mm (17 in.) Rim
Wheel Tread on Ground	2.16 m (85.0 in.)	2.21 m (87.0 in.)		2.32 m (92 in.)
Overall Width	2.64 m (104.0 in.)	2.82 m (111 in.)		2.8 m (110 in.)
Ground Clearance (front axle)	587 mm (23.1 in.)	612 mm (24.1 in.)		640 mm (25.2 in.)
Serviceability				
Refill Capacities	EPA Final Tier 4/EU Stage V		EPA Tier 3/EU Stac	ge IIIA and EPA Tier 2/EU Stage II
Fuel Tank	416.5 L (110 gal.)		416.5 L (110 gal.)	,
Diesel Exhaust Fluid (DEF) Tank	22.5 L (6 gal.)			
Cooling System	55.0 L (14.5 gal.)		48.5 L (12.8 gal.)	
Engine Oil With Filter	28.4 L (7.5 gal.)		28.0 L (7.4 gal)	
Transmission Fluid				
	23.5 L (6.2 gal.)		28.4 L (7.5 gal.)	
Differential Housing	38.0 L (10 gal.)		38.0 L (10 gal.)	
Tandem Housings (each)	74.0 L (19.5 gal.)		74.0 L (19.5 gal.)	
Circle Gearbox	5.7 L (1.5 gal.)		5.7 L (1.5 gal.)	
Hydraulic Reservoir				
Operating Weights	60.5 L (16 gal.)		53.0 L (14 gal.)	
operating traignes	60.5 L (16 gal.)			
With Full Fuel Tank, 4.27-m x 686-mm x	60.5 L (16 gal.)			
·	60.5 L (16 gal.)			
With Full Fuel Tank, 4.27-m x 686-mm x	60.5 L (16 gal.)			
With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard With 203-mm x 19-mm (8 in. x ¾ in.) Cutting	60.5 L (16 gal.)			
With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard With 203-mm x 19-mm (8 in. x ¾ in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.)			53.0 L (14 gal.)	ge IIIA and EPA Tier 2/EU Stage II
With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard With 203-mm x 19-mm (8 in. x ¾ in.) Cutting	EPA Final Tier 4/EU Stage V		53.0 L (14 gal.)	ge IIIA and EPA Tier 2/EU Stage II .)
With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard With 203-mm x 19-mm (8 in. x ¾ in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator Front	EPA Final Tier 4/EU Stage V 4547 kg (10,025 lb.)		53.0 L (14 gal.) EPA Tier 3/EU Stag 4556 kg (10,045 lb	.)
With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard With 203-mm x 19-mm (8 in. x ¾ in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear	EPA Final Tier 4/EU Stage V 4547 kg (10,025 lb.) 12 499 kg (27,555 lb.)		53.0 L (14 gal.) EPA Tier 3/EU Stag 4556 kg (10,045 lb 11 854 kg (26,134 lb)).)
With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard With 203-mm x 19-mm (8 in. x ¾ in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total	EPA Final Tier 4/EU Stage V 4547 kg (10,025 lb.)		53.0 L (14 gal.) EPA Tier 3/EU Stag 4556 kg (10,045 lb)).)
With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard With 203-mm x 19-mm (8 in. x ¾ 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	EPA Final Tier 4/EU Stage V 4547 kg (10,025 lb.) 12 499 kg (27,555 lb.)		53.0 L (14 gal.) EPA Tier 3/EU Stag 4556 kg (10,045 lb 11 854 kg (26,134 lb)).)
With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard With 203-mm x 19-mm (8 in. x ¾ 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	EPA Final Tier 4/EU Stage V 4547 kg (10,025 lb.) 12 499 kg (27,555 lb.) 17 046 kg (37,580 lb.)		EPA Tier 3/EU Stag 4556 kg (10,045 lb 11 854 kg (26,134 lb 16 410 kg (36,179 lb	()
With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard With 203-mm x 19-mm (8 in. x ¾ 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	EPA Final Tier 4/EU Stage V 4547 kg (10,025 lb.) 12 499 kg (27,555 lb.) 17 046 kg (37,580 lb.) 5980 kg (13,184 lb.)		EPA Tier 3/EU Stag 4556 kg (10,045 lb 11 854 kg (26,134 lb 16 410 kg (36,179 lb)).)).)
With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard With 203-mm x 19-mm (8 in. x ¾ 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 Rear	EPA Final Tier 4/EU Stage V 4547 kg (10,025 lb.) 12 499 kg (27,555 lb.) 17 046 kg (37,580 lb.) 5980 kg (13,184 lb.)		EPA Tier 3/EU Stag 4556 kg (10,045 lb 11 854 kg (26,134 lb 16 410 kg (36,179 lb 6035 kg (13,305 lb. 13 805 kg (30,435 l) b.) b.)
With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard With 203-mm x 19-mm (8 in. x ¾ in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight With Front Push Block, Rear Ripper/Scarifier, and Other Equipment Front	EPA Final Tier 4/EU Stage V 4547 kg (10,025 lb.) 12 499 kg (27,555 lb.) 17 046 kg (37,580 lb.) 5980 kg (13,184 lb.)		EPA Tier 3/EU Stag 4556 kg (10,045 lb 11 854 kg (26,134 lb 16 410 kg (36,179 lb) b.) b.) lb.)



Option Weights	870G/GP
Moldboards With Through-Hardened Dura-Max	
Cutting Edge	
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 $\frac{3}{4}$ in.) cutting edge	
and 16-mm (⅓ 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 $\frac{3}{4}$ in.) cutting edge	
and 16-mm (⅓ 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 $\frac{3}{4}$ in.) cutting edge	
and 19-mm (¾ 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 $\frac{3}{4}$ in.) cutting edge	
and 19-mm (¾ in.) hardware	
Extensions, 610 mm (2 ft.) (right or left)	
For Use With 686-mm (27 in.) Moldboards	120 kg (265 lb.)
Overlay End Bits, Reversible (one pair)	
For 152-mm (6 in.) Cutting Edge	19.5 kg (43 lb.)
For 203-mm (8 in.) Cutting Edge	23 kg (51 lb.)
Heavy-Duty Dual-Input Circle-Drive Gearbox	14 kg (31 lb.)
Circle-Drive Slip Clutch	9 kg (20 lb.)
Circle	
Standard	0 kg (0 lb.)
Premium	255 kg (562 lb.)
Moldboard Impact-Absorption System	43 kg (95 lb.)
Ripper/Scarifier, Rear Mounted With Hitch and Ripper	1139 kg (2,510 lb.)
Shanks (3)	
Scarifier Shanks With Teeth (9 for rear ripper/scarifier)	68 kg (150 lb.)
Ripper Shanks and Teeth (2)	63 kg (139 lb.)
Rear Counterweight With Integral Rear Hitch	727 kg (1,603 lb.)
Rear Hitch	54.4 kg (120 lb.)
Push Block, Front	1338 kg (2,950 lb.)
Scarifier	
Front Mount With Teeth (5)	831 kg (1,833 lb.)
Mid-Mount With Teeth (11)	1481 kg (3,265 lb.)
Machine Dimensions	
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
A l 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	2.53 m (8 ft. 4 in.)

Option Weights (continued)	870G/GP
Front Lift Group (Balderson-style)	763 kg (1,682 lb.)
Tires	
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.)
20.5-R25, Radial, G2/L2 Snow	414 kg (913 lb.)
20.5-R25, Radial, G3/L3 General Purpose	474 kg (1,045 lb.)
1-Piece Rims	
330 mm x 635 mm (13 in. x 25 in.)	–201.4 kg (–444 lb.)
Multi-Piece Rims	
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	J
Front	99 kg (218 lb.)
Rear	141 kg (310 lb.)
Low Cab With Opening Front and Side Windows	14.5 kg (32 lb.)
Premium Air-Suspension, Heated Seat With Adjustable	13 kg (28 lb.)
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	3
10 Halogen Lights	4.5 kg (10 lb.)
18 Halogen Lights	8 kg (18 lb.)
18 LED Lights	7 kg (16 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)	=g (12 121)
F Wheelbase	6.16 m (20 ft. 3 in.)
G Overall Length	8.89 m (29 ft. 2 in.)
H Overall Length With Scarifier	9.69 m (31 ft. 9 in.)
I Overall Length With Push Block and Ripper	9.99 m (32 ft. 9 in.)
I ^I Overall Length With Scarifier and Ripper	10.59 m (34 ft. 9 in.)
For Overall Width see Tires (Wheels on page 20	



Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

620	670	770	870	Operator's Station	620	670	770	870	Electrical
•	•	•	•	Low-profile ROPS/FOPS cab with HVAC (ROPS ISO 3471 / FOPS SAE 3449 Level II)	•	•	•	•	100-amp alternator (Tier 3/Stage IIIA and Tier 2/ Stage II)
•	•	A	•	Low-profile ROPS/FOPS cab utilizing laminated glass with fixed lower front and side opening windows	•	•	•	•	130-amp alternator (FT4/Stage V [optional for Tier 3/ Stage IIIA and Tier 2/Stage II])
\blacktriangle	\blacktriangle	\blacktriangle		Opening front and side windows (standard with	A	•	A	A	200-amp alternator (FT4/Stage V)
•	•	•	•	Grade Pro) Keyless start with multiple security modes	•	•	•	•	Batteries (2), 1,400 CCA with 440-min. reserve capacity
•	•	•	•	Fabric air-suspension seat with armrests and headrest	A	•	•	•	Left-hand engine compartment service-check light
•	•	•	•	Premium heated, leather/fabric, high-wide-back, air-suspension seat with armrests (standard with Grade Pro)	•	•	•	•	Right-hand engine compartment service-check light Transporting lights (4 halogen) Grading lights (10 halogen lights)
•	•	•	•	Sealed-switch module with function indicators		_	_	_	Deluxe grading lights (18 halogen lights)
•	•	•	•	Electric rear-window defroster		<u> </u>	_	-	Premium grading lights (18 LED lights)
•	•	•	•	Upper front windshield washers with intermittent	_	_	_		Tall front snowplow light bar
				wipers		-	-	-	Multifunction/multi-language diagnostic LCD
\blacktriangle	•	•	•	Upper rear windshield washers with intermittent					color monitor
				wipers	•	•	•	•	Reverse warning alarm (SAE J994)
A	A	A	A	Lower front intermittent wiper and washer	•	•	•	•	LED brake and turn lights
A	A		A	Powered cab precleaner					Moldboard
A	A	A	A	Decelerator pedal					Patented pre-stressed, high strength, wear resistant
A	A		A	Flip-down, right- and/or left-hand cab beacon	•	•			3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x 1/8 in.)
				with bracket					3.96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.)
•	•	•	•	Cab prewired for beacon, radio, and auxiliary circuit					4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x % in.)
•	•	•	•	Front window sun visor				•	4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)
<u> </u>	•	•	•	Retractable rear sunshade					4.88 m x 686 mm x 25 mm (16 ft. x 27 in. x 1 in.)
A	A	A	A	Rearview mirrors, exterior (2) (SAE J985) Heated exterior mirrors (2) (SAE J985)	•	•	•	•	Quick-change and jackscrew-adjustable moldboard side-shift extreme-duty wear inserts
\blacktriangle	\blacktriangle			Fire extinguisher		•	•		610-mm (24 in.) left- or right-hand extensions for
	•	lacktriangle	•	High-resolution rear camera with dedicated in-cab					610-mm (24 in.) moldboard
				monitor (in some markets)				A	610-mm (24 in.) left- or right-hand extensions for
A	A		A	High-resolution front/rear-camera combination					686-mm (27 in.) moldboard
				with dedicated in-cab monitor					Reversible overlay endbits
•	•	•	•	Retractable seat belt, 76 mm (3 in.) (SAE 386)					Overall Vehicle
A	A	A	A	AM/FM radio with auxiliary and Weather Band (WB)	•		lacktriangle	•	JDLink™ wireless communication system (available
A	A	•	•	AM/FM radio with Bluetooth®, auxiliary, and					in specific countries; see your dealer for details)
•	•	•	•	WB ready		•	•	•	Ground-level fuel and diesel exhaust fluid (DEF) filling
				Push-button-activated cruise control	A	•	•	•	Fluid-sampling ports for engine oil and coolant, hydraulic oil, and axle and transmission fluids

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions specified per ISO9249. No derating is required up to 3050-m (10,000 ft.) altitude. Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on units with standard equipment; 14.0 x 610-mm (24 in.) 12 PR G2, Bias tires and 3.66-mx 610-mm x 22-mm (12 ft. x 24 in. x ½ 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-mx 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.

Additional equipment (continued)

Machine-Damage Avoidance

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

620	670	770	070	Overall Vehicle (continued)	620	670	770	070	Front Attachments
020	670	770	8/0	Vandal-protection locking for: Cab doors / Top tank	620	670	170	8/0	Front Attachments Front push block
				radiator-access door / Engine coolant surge tank /		-			V-type front scarifier with float position, 5 shanks
				Hydraulic reservoir cap / Battery-disconnect switch /		_	_		Mid-mount scarifier with float position, 11 shanks
				Ground-level electrical master disconnect switch /		-	-		Front Balderson-style lift group with float position
				Fuel-tank door and cap / Toolbox		_	_		Front-mounted dozer blades
•	•	•	•	Environmental drains with hoses for engine,					Rear Attachments
				transmission, hydraulic, differential fluids, and					Full bottom guard with access panel and side guards
				engine coolant					for rear vehicle protection
	•	•	•	Hydraulically driven cool-on-demand reversing fan		•	•	•	Rear-mounted ripper/scarifier combination with
•	•	•		Banked easy-access vertical spin-on filters for		_	_	_	rear hitch and pin, 3 ripper shanks
				hydraulic, transmission, and axle fluids	•	•	•	•	Rear counterweight with rear hitch and pin
•	•	•	•	Engine rotary ejector precleaner		_	_	_	Rear hitch and pin
	•	•	•	Automatic differential lock	•	•	•	•	Extra scarifier shanks (9) with teeth for rear ripper
•	•	•	•	Engine-stall prevention and auto shutdown			_		scarifier
	A			Adjustable rotary engine precleaner (FT4/Stage V)					Extra ripper shanks (2) with teeth for rear ripper/
	_	•	•	Heavy-duty air cleaner (FT4/Stage V)					scarifier
	•	•		Single-input circle drive					Grade Pro (GP) Option
	_	_		Single-input circle drive with slip clutch	•	•	•	•	Low-profile GP cab with opening lower front and
		A	•	Heavy-duty dual-input circle drive without slip clutch					side windows
	_	_	_	Heavy-duty dual-input circle drive with slip clutch					Low-profile GP cab utilizing laminated glass with
				Premium circle					fixed lower front and side opening windows
	_	_	_	Auto-Shift transmission	•	•	•	•	Premium heated, leather/fabric, high-wide-back,
				Auto-Shift PLUS transmission					air-suspension seat with armrests
	_	_	_	Blade-impact-absorption system				A	Dual-joystick controls
				Front and/or rear wheel fenders	A				Fingertip armrest-mounted controls including
•				Quick-service bank for transmission, hydraulic,		_	_	_	steering lever
				engine oil, and engine coolant fluid changes	•	•	•	•	Steering wheel
	A	A	A	Secondary steering	•	•	•	•	Cross slope
	•	•	•	Sound-absorption package (Tier 3/Stage IIIA and	•	•	•	•	Return to straight
		•		Tier 2/Stage II)					Grade Control
	_	_	_	Wheel chocks	A	<u> </u>	<u> </u>	A	SmartGrade available on GP models
				Automation (standard on SmartGrade™ models, optional on GP models)	A	A	A	A	Mast mounts
	_	•	_	Automation Suite	A	<u> </u>	<u> </u>	<u> </u>	Topcon ready available on G and GP models
	_	_	_	Auto-Articulation					Trimble ready available on G and GP models
_	_	_	_						
	_	_	_	Auto-Gain for Cross Slope Auto-Pass					
_	_	_	_						
	1			Blade Flip Machine Presets					
_	_	_	_	ויומנווווופ רופטפנט					



Take control with more options

Inspired by input from customers like you, John Deere G-Series Motor Graders include a host of innovative options like dual-joystick controls and exclusive automation advantages on Grade Pro (GP) models. Factory-integrated SmartGrade™ configurations. And Precision mode on six-wheel-drive machines. The smaller, more economical 620G and 622G deliver practical power at up to 10-percent fuel savings over their larger siblings. We give you the power of choice to match your application. So you can choose to **Run Your World.**

