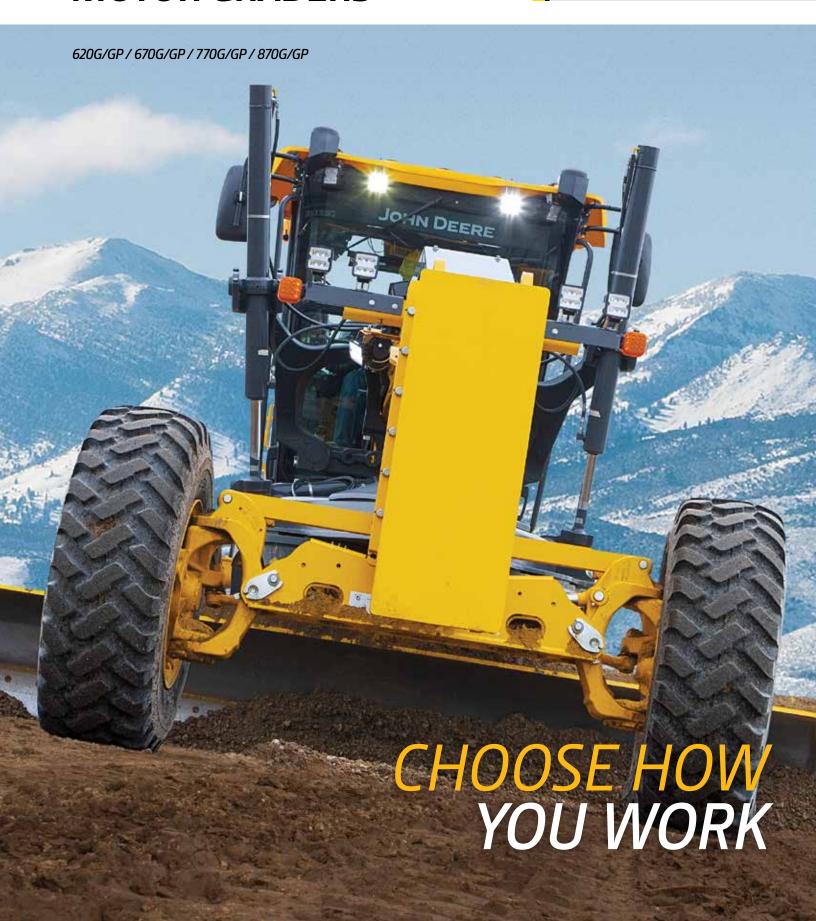
# G-SERIES 4WD MOTOR GRADERS











# TAKING GRADING PERFORMANCE TO THE NEXT LEVEL.

Our motor graders have earned a reputation for exceptional control and grading precision without a lot of extra effort. Inspired by thoughts and ideas from you, our customers, our latest G-Series Graders take it to the next level. With more choices, including our Customer Advocate Group-tested dual-joystick controls. Expanded grade-control system options, including SmartGrade models with technology integrated directly into the machine to deliver more accurate grading results. And a smaller, more economical machine, the 620G. Existing models boast even more performance, along with a host of proven features to help you boost productivity and maximize uptime while lowering daily operating costs.



#### WHEN YOU ASK, WE LISTEN: THE 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.

#### 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.

#### 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.

#### 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.

#### Smarter from day one

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



INDUSTRY-FIRST SMARTGRADE™ CONFIGURATIONS











### **SEISMIC SHIFT**

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), 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.





# CHOICE OF CONTROLS:

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

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

#### Joystick option

Our dual-joystick 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 fatigue

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

#### Suite deal

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

#### Return-to-straight

At the touch of a button, return-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.





# 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.



## **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.



#### 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 operatordetermined 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.

#### 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.

#### Get valuable insight with

#### JOHN DEERE WORKSIGHT™

The John Deere WorkSight suite of construction technology delivers **Productivity Solutions** to help you get more done, more efficiently. The in-base, five-year JDLink™ telematics subscription provides machine location, utilization data, and alerts to help you maximize productivity and efficiency. Other productivity solutions including grade-management and payload-weighing options are also available.

To maximize uptime and lower costs, JDLink telematics 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 actions to prevent downtime called Expert Alerts. 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.



#### Optional premium circle

This industry-leading design features a fully sealed bearing and pinion, reducing operating costs while delivering 40-percent more torque and 15-percent more speed than a traditional circle. Contractors will benefit from improved accuracy when using a grade-control system by no longer having to compensate for wear in the circle. This is especially impactful when coupled with the innovative John Deere SmartGrade™ system.



SPECIFICATIONS

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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.

Manufacturer and Model   John Deere PowerTech" PSS 6.81.   John Deere PowerTech" PSL 56.81.   John Deere PowerTech" PS.8.   PAT irs 3/EU Stage III	Engine	620G/GP		
Cylinders   6		John Deere PowerTech™ PSS 6.8L	John Deere PowerTech™ Plus 6.8L	John Deere PowerTech™ 6.8L
Displacement   Gal. (414 cu. in.)   Gal. (414 cu. in.)   Gal. (414 cu. in.)	Non-Road Emission Standard	EPA Final Tier 4/EU Stage V	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II
Displacement   Color	Cylinders	6	6	6
Net Pearl   112 kW (150 hp)   112 kW (150 hp)   112 kW (150 hp)   123 kW (165 hp)   123 kW (175 hp)   130 kW (185 hp)   144 kW (180 hp)   138 kW (185 hp)   138 kW (185 hp)   144 kW (180 hp)   138 kW (185 hp)	•	6.8L (414 cu. in.)	6.8L (414 cu. in.)	6.8L (414 cu. in.)
Gear 2   12 kW (150 hp)   12 kW (150 hp)   12 kW (150 hp)   12 kW (150 hp)   12 kW (156 hp)   123 kW (156 hp)   130 kW (175 hp)   130 kW (180 hp)   134 kW (180 hp)   135 kW (185 hp)   136 kW (185 hp)   146 kW (195 hp)   138 kW (185 hp)   146 kW (195 hp)   149 kW (200 hp)   138 kW (185 hp)   138 kW	•			
Gear 2   123 kW (165 hp)   123 kW (165 hp)   123 kW (165 hp)   126 kW (185 hp)   126 kW (185 hp)   130 kW (175 hp)   134 kW (180 hp)   134 kW (180 hp)   134 kW (180 hp)   134 kW (180 hp)   136 kW (185 hp)   142 kW (190 hp)   138 kW (185 hp)   142 kW (190 hp)   138 kW (185 hp)   142 kW (190 hp)   138 kW (185 hp)   149 kW (200 hp)   138 kW (185 hp)   138 kW (185 hp)   149 kW (200 hp)   138 kW (185 hp)   1		112 kW (150 hp)	112 kW (150 hp)	112 kW (150 hp)
Gear 3	Gear 2			
Gear 4			•	
Gear 5			•	
Gear 6 Gear 7 S7 kW (20 hp) Gear 8 IGO kW (215 hp) Gear 8 IGO kW (215 hp) Gear 9 IGO kW (215 hp) Gear 1 IGO kW (215 hp) Gear 3 IGO kW (215 hp) Gear 3 IGO kW (215 hp) Gear 9 IGO kW (215 hp) Gear 9 IGO kW (215 hp) Gear 1 IGO kW (215 hp) Gear 1 IGO kW (215 hp) Gear 2 Gear 1 IGO kW (215 hp) Gear 3 IGO kW (215 hp) Gear 3 IGO kW (215 hp) Gear 1 IGO kW (215 hp) Gear 1 IGO kW (215 hp) Gear 3 IGO kW (215 hp) Gear 4 IGO kW (215 hp) Gear 3 IGO kW (215 hp) Gear 4 IGO kW (215 hp) Gear 3 IGO kW (215 hp) Gear 3 IGO kW (215 hp) Gear 4 IGO kW (215 hp) Gear 3 IGO kW (215 hp) Gear 4 IGO kW (215 hp) Gear 5 IGO kW (215 hp) Gear 6 IGO kW (215 hp) Gear 7 IGO kW (215 hp) Gear 6 IGO kW (215 hp) Gear 7 IGO kW (215 hp) Gear 7 IGO kW (215 hp) Gear 9 IGO kW (215 hp) Gear 9 IGO				•
Gear 7 157 kW (210 hp) 149 kW (200 hp) 138 kW (185 hp) 166 cer 8 160 kW (215 hp) 149 kW (200 hp) 138 kW (185 hp) 180 kW (185 hp) 190 kW (200 hp) 138 kW (185 hp) 190 kW (180 h	Gear 6			•
Gear 8 Net Peak Torque 1005 Nm  750   bft.) Net Peak Torque Net Peak Torque Net Peak Torque Net Forque Rise 40% Series turbocharged, charge-air cooled Lubrication Full-flow spin-on filter and integral cooler Air Cleaner With Restriction Indicator Cooling From Coolant, Extended Life, Rating Powertrain Transmission  Gers Forward Reverse 8 Maximum Tavel Speeds No tire slip at 2,180 rpm, 14,0-R24 tires Gear 1 4,0 km/h (2.5 mph) Gear 2 5,5 km/h (3.5 mph) Gear 3 7,7 km/h (4.8 mph) Gear 3 7,7 km/h (4.8 mph) Gear 4 10,9 km/h (6.8 mph) From Axle Differentials Spiral bevels; hydraulically actuated, clutch type can be applied on-the-go, selectable manual or automatic different articulation for maneuverability, return-to-straight control included in Grade Pro (GP) of Taring Radius (Front Sterning Rake Primary and Secondary Brake Primary and Secondary Brake Primary and Secondary Brake Primary Brake Powertrail  Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  1000 Hydraulically closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  1010 Hydraulically compensated load-sensing (PCLS), variable-displacement piston pump  1010 Hydraulically compensated load-sensing (PCLS), variable-displacement piston pump  1010 Hydraulically condenses and color of tandem pivot, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 345)  102 L/min. (56 gpm)  102 L/min. (56 gpm)				•
Net Peak Torque  1005 Nm (750 ibft.)  1915 Nm (682 ibft.)  37%  44%  A831 Nm (620 ibft.)  37%  44%  44%  44%  44%  44%  44%  44%		•		
Net Torque Rise Aspiration Series turbocharged, charge-air cooled Lubrication Full-flow spin-on filter and integral cooler Full flow spin-on filter and inte		•		
Aspiration Lubrication Full-flow spin-on filter and integral cooler Full-flow spin-on filter and integral coole		•	•	
Lubrication Full-flow spin-on filter and integral cooler Full-flow spin spin spin spin spin spin spin spin	•			
Air Cleaner With Restriction Indicator Cooling Engine Coolant, Extended Life, Rating Powertrain Transmission  Direct-drive John Deere PowerShift Plus", modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; ind transmission reservoir with separate filtration and cooling system with 117-L/min. (31 gpm) gear pump  Gears Forward 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 (12.5 mph) Gear 3 7,7 km/h (4.8 mph) Gear 3 7,7 km/h (4.8 mph) Gear 4 10.9 km/h (6.8 mph) Front Axle Oscillation (total) Oscillation (total) Oscillation (total) Oscillation steer and articulation Turning Radius (front steer and articulation) Articulation (both right and left) Inadius (1.23 ft. 8 in.) Articulation (both right and left) Primary and Secondary Brake Primary and Secondary Brake Primary and Secondary Brake Primary and Secondary Brake Primary Brain (Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump Maximum Pump Flow 212 L/min. (56 gpm)  Direct-drive John Ceg. 34 deg. Direct-drive John Ceg. 34 deg. Direct-drive John Deere PowerShift Plus", modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; ind transmission reservoir with separate filtration and cooling system with 117-L/min. (31 gpm) gear pump Direct-drive John Dear PowerShift Plus", modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; ind transmission reservoir with separate filtration and cooling system with 117-L/min. (31 gpm) gear pump Direct-drive John Deare PowerShift Plus", modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; ind transmission reservoir with separate filtration and cooling system with 117-L/min. (31 gpm) gear pump Direct-drive John Deare PowerShift Plus", modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; ind transmission peace pump Direct-drive John Deare Shift Plus", 14.0-14.0-15.  Brakes Parking Brake Primary and Secondary Brake Primary and Secondary	•			
Engine Coolant, Extended Life, Rating Powertrain  Transmission Direct-drive John Deere PowerShift Plus**, modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; ind 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 No tire slip at 2;180 rpm, 14.0-F24  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 77 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)  Differentials Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic different Steering Wheel Lean Angle (each direction)  Turning Radius (front steer and articulation)  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 indisystems effective on all 4 tandem wheels  Primary and Secondary Brake Automatically spring applied, hydraulically released, oil cooled, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 345  Parking Brake Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)  Hydraulically  Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  Maximum Pump Flow 212 L/min. (56 gpm)		<del>-</del>	<del>-</del>	·
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; ind 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 No tire slip at 2,180 rpm, 14.0-P. R24 tires No tire slip at 2,180 rpm, 1		Dual element, dry	Dual element, dry	Dual element, dry
Transmission Direct-drive John Deere PowerShift Plus", modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; ind 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 No tires slip at 2,180 rpm, 14.	3	37 dag C		
Transmission  Direct-drive John Deere PowerShift Plus**, modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; ind transmission reservoir with separate filtration and cooling system with 117-L/min. (31 gpm) gear pump  Gears  Forward  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  5.5 km/h (3.5 mph)  Gear 3  7/ km/h (4.8 mph)  Gear 3  7/ km/h (4.8 mph)  Gear 4  10.9 km/h (6.8 mph)  Oscillation (total)  32 deg.  Wheel Lean Angle (each direction)  Differentials  Steering (all models include  steering wheel)  Turning Radius (front steer and articulation)  Articulation)  Articulation (both right and left)  Final Drives  Primary and Secondary Brakes  Primary and Secondary Brakes  Parking Brake  Automatically spring applied, hydraulically released, oil cooled, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 345 pm)  Hydraulics  Very Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  Maximum Pump Flow  Direct-drive John Deere Power Shift Plus**, modulated shift-no-the-go; sevent-Based Shifting (EBS), inching pedal; ind cooled, self-adjusting, sealed in cooled, filtered oil, multi-disc (ISO 345 phr)  No tire slip at 2,180 rpm, 14.0-18  Reverse  No tire slip at 2,180 rpm, 14.0-18  Roear 5  No tire slip at 2,180 rpm, 14.0-18  Sear 7  32.3 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  Dear 9  Gear 9		–57 deg. C (–54 deg. 1 )		
Gears 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-R26 Gear 1 4.0 km/h (2.5 mph) Gear 6 23.2 km/h (14.4 mph) Gear 3 7.7 km/h (4.8 mph) Gear 6 23.2 km/h (14.4 mph) Gear 4 10.9 km/h (6.8 mph) Gear 8 45.5 km/h (28.3 mph) Front Axle Oscillation (total) 32 deg. Wheel Lean Angle (each direction) Differentials Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic different steering (all models include All-hydraulic power-frame articulation for maneuverability; return-to-straight control included in Grade Pro (GP) or Turning Radius (front steer and articulation) Turning Radius (front steer		Direct drive John Deere PowerShift Dluc™	modulated shift on the go Event Pased	Shifting (EDS), inching podal: independent
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-R2 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 77 km/h (4.8 mph) Gear 7 32.3 km/h (2.0 mph) Gear 4 10.9 km/h (6.8 mph) Gear 8 45.5 km/h (28.3 mph) Front Axle Oscillation (total) 32 deg. Wheel Lean Angle (each direction) Differentials Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic different Steering (all models include All-hydraulic power-frame articulation for maneuverability; return-to-straight control included in Grade Pro (GP) or Turning Radius (front steer and articulation) 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 ind systems effective on all 4 tandem wheels Parking Brake Hydraulically actuated, inboard of tandem pivot, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 345 Hydraulics Type Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump Maximum Pump Flow 212 L/min. (56 gpm)	IIdiisiiiissioii			3
Forward 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 6 23.2 km/h (14.4 mph) Gear 3 7.7 km/h (4.8 mph) Gear 4 10.9 km/h (6.8 mph) Gear 8 45.5 km/h (28.3 mph) Front Axle Oscillation (total) 32 deg. Wheel Lean Angle (each direction) Differentials Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic different steering (all models include steering (all models include Turning Radius (front steer and articulation) Articulation (both right and left) Turning Radius (front steer and articulation) Articulation (both right and left) Primal Drives Inboard-mounted planetary sealed in cooled, filtered oil Brakes Poot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both indisystems effective on all 4 tandem wheels Primary and Secondary Brakes Parking Brake Automatically spring applied, hydraulically released, oil cooled, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 345 Hydraulically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450) Hydraulically Type Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump Maximum Pump Flow 212 L/min. (56 gpm)	Coore	transmission reservoir with separate miti-	ation and cooling system with 117-1711111. (3	orgpini, gear pump
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-R Gear 1 4.0 km/h (2.5 mph) Gear 6 23.2 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 77 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 Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic different Steering wheel) tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) of Turning Radius (front steer and articulation) Articulation (both right and left) 22 deg.  Primary and Secondary Brakes Poc-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both indisystems 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 345 Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)  Hydraulics  Type Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  Maximum Pump Flow 212 L/min. (56 gpm)		0		
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 3  7.7 km/h (4.8 mph)  Gear 8  Gear 4  10.9 km/h (6.8 mph)  Gear 8  45.5 km/h (28.3 mph)  Front Axle  Oscillation (total)  Oscillation (total)  Oscillation (total)  Oscillation (total)  Sperial bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic different tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) or 7.21 m (284 in.) (23 ft. 8 in.)  Articulation (both right and left)  Brakes  Primary and Secondary Brakes  Parking Brake  Automatically spring applied, hydraulically released, oil cooled, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 345 park)  Hydraulics  Pype  Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  Maximum Pump Flow  No tire slip at 2,180 rpm, 14.0-16 Gear 5  Gear 5 Gear 6  Gear 6  Gear 7  32.3 km/h (12.4 mph) Gear 7  32.3 km/h (12.0 mph) Gear 8  45.5 km/h (28.3 mph) Fear 7  32.3 km/h (20.1 mph) Gear 8  45.5 km/h (28.1 mph) Gear 8  45.5 km/h (28.1 mph) Gear 8  45.5 km/h (28.1 mph) Gear 7  Gear 8  45.5 km/h (20.1 mph) Gear 8  45.5 km				
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 77 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 Oscillation (total) 32 deg. Wheel Lean Angle (each direction) 20 deg. Wheel Lean Angle (each direction) 20 deg. Steering (all models include 34.1 hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positic steering wheel) tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) or 7.21 m (284 in) (23 ft. 8 in)  Turning Radius (front steer and articulation) 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, 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 345 Net) Hydraulics Type Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump Maximum Pump Flow 212 L/min. (56 gpm)				No time alia at 2100 anno 14 0 024 time
Gear 2 5.6 km/h (3.5 mph) Gear 6 23.2 km/h (14.4 mph) Gear 3 77 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 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 different steering (all models include All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positic steering wheel) tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) of Turning Radius (front steer and articulation) 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, bydraulically actuated, inboard of tandem pivot, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 345 Parking Brake Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)  Hydraulics  Type Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump Maximum Pump Flow 212 L/min. (56 gpm)	·		C	
Gear 3 77 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 Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic different All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positic steering wheel) tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) or 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 indispystems effective on all 4 tandem wheels  Primary and Secondary Brakes Hydraulically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)  Hydraulics  Type Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  Maximum Pump Flow 212 L/min. (56 gpm)				
Gear 4 10.9 km/h (6.8 mph) Gear 8 45.5 km/h (28.3 mph)  Front Axle  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 different steering (all models include All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positic steering wheel) tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) on Turning Radius (front steer and articulation)  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 indiscussive 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 345)  Hydraulics  Type Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  Maximum Pump Flow 212 L/min. (56 gpm)				
Front Axle  Oscillation (total)  Oscillation (total)  Oscillation (total)  Wheel Lean Angle (each direction)  Differentials  Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic different All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positive steering wheel)  Turning Radius (front steer and articulation)  Atticulation)  Atticulation (both right and left)  Primal Drives  Inboard-mounted planetary sealed in cooled, filtered oil  Brakes  Primary and Secondary Brakes  Primary and Secondary Brakes  Parking Brake  Automatically spring applied, hydraulically released, oil cooled, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 345)  Hydraulics  Type  Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  Maximum Pump Flow  120 deg.  Hydraulically actuated, inboard of tandem pivot, self-adjusting (ISO 3450)				•
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 different All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positive steering wheel) tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) of Turning Radius (front steer and articulation)  Articulation (both right and left) 22 deg.  Final Drives Inboard-mounted planetary sealed in cooled, filtered oil  Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both independent of tandem wheels  Primary and Secondary Brakes Hydraulically actuated, inboard of tandem pivot, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 345)  Parking Brake Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)  Hydraulics  Type Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  Maximum Pump Flow 212 L/min. (56 gpm)			Gear 8	45.5 km/h (28.3 mph)
Wheel Lean Angle (each direction)  Differentials  Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic different  All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positive steering wheel)  Turning Radius (front steer and articulation)  Articulation (both right and left)  Primary and Secondary Brakes  Primary and Secondary Brakes  Parking Brake  Automatically actuated, inboard of tandem pivot, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 345)  Hydraulics  Type  Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  Maximum Pump Flow  20 deg.  All-hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic different on automatic different on anulous actuated, clutch type can be applied on-the-go; selectable manual or automatic different of automatic different or automatic different or automatic different on automatic different or altomatic different or anulous actuated in framewore side drift, positive tandem productivity; crab steering reduces side drift, positive tandem selection.  All-hydraulics primal productivity; crab steering reduces side drift, positive tandem productivity; crab steering reduces side drift, positive tandems productivity; crab steering reduces side drift, positive tandems productivity; crab steering reduces side drift, positive tandems productivity; crab steering reduces side drift, positive steer				
Differentials  Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic different  All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positive tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) operation of tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) operation of tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) operation of tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) operation of tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) operation of tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) operation of tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) operation of tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) operation of tandems or tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) operation of tandems or t		-		
Steering (all models include steering wheel) All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positive tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) on 7.21 m (284 in.) (23 ft. 8 in.) Articulation (both right and left)  Final Drives Inboard-mounted planetary sealed in cooled, filtered oil  Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both indispatency and Secondary Brakes Primary and Secondary Brakes Parking Brake Parking Brake Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)  Hydraulics  Type Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump Maximum Pump Flow 212 L/min. (56 gpm)		3		the state of the state of
tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) of Turning Radius (front steer and articulation)  Articulation (both right and left)  Brakes  Final Drives  Brakes  Primary and Secondary Brakes  Parking Brake  Parking Brake  Parking Brake  Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)  Hydraulics  Type  Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  Maximum Pump Flow  tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) of 7.21 m (284 in.) (23 ft. 8 in.)  7.21 m (284 in.) (23 ft. 8 in.)  22 deg.  Inboard-mounted planetary sealed in cooled, filtered oil  Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both indication systems effective on all 4 tandem wheels  Hydraulically actuated, inboard of tandem pivot, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 345 or 345				
Turning Radius (front steer and articulation)  Articulation (both right and left)  Primary and Secondary Brakes  Parking Brake  Parking Brake  Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)  Hydraulics  Type  Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  Maximum Pump Flow  7.21 m (284 in.) (23 ft. 8 in.)  8.22 deg.  Foot-controlled, hydraulically wet-disc brakes sealed in pressurized, cooled, filtered oil; both indication in pressurized, cooled, filtered oil, multi-disc (ISO 345 in pressurized), sealed in cooled, filtered oil, multi-disc (ISO 345 in pressurized), sealed in cooled, filtered oil, multi-disc (ISO 345 in pressurized), sealed in cooled, filtered oil, multi-disc (ISO 345 in pressurized), sealed in cooled, filtered oil, multi-disc (ISO 345 in pressurized), sealed in cooled, filtered oil, multi-disc (ISO 345 in pressurized), sealed in cooled, filtered oil, multi-disc (ISO 345 in pressurized), sealed in cooled, filtered oil, multi-disc (ISO 345 in pressurized), sealed in cooled, filtered oil				3
Final Drives  Inboard-mounted planetary sealed in cooled, filtered oil  Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both indisplants systems effective on all 4 tandem wheels  Primary and Secondary Brakes  Parking Brake  Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)  Hydraulics  Type  Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  Maximum Pump Flow  Inboard-mounted planetary sealed in cooled, filtered oil  Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both indisplants of the pressure on the property of the pressure of the	Turning Radius (front steer and		de-slope stability; return-to-straight cont	rol included in Grade Pro (GP) option
Final Drives  Brakes  Primary and Secondary Brakes  Parking Brake  Parking Brake  Type  Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  Maximum Pump Flow  Inboard-mounted planetary sealed in cooled, filtered oil Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both indicated systems effective on all 4 tandem wheels  Hydraulically actuated, inboard of tandem pivot, self-adjusting, sealed in cooled and filtered oil, multi-disc (ISO 345)  Hydraulics  Type  Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  212 L/min. (56 gpm)		22 deg.		
Brakes Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil; both indestruction of 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 345)  Hydraulics  Type Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  Maximum Pump Flow 212 L/min. (56 gpm)		3	oled, filtered oil	
Parking Brake Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)  Hydraulics  Type Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  Maximum Pump Flow 212 L/min. (56 gpm)	Brakes	Foot-controlled, hydraulically operated, r	nultiple wet-disc brakes sealed in pressuriz	red, cooled, filtered oil; both independent
Parking Brake Automatically spring applied, hydraulically released, oil cooled, self-adjusting (ISO 3450)  Hydraulics  Type Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  Maximum Pump Flow 212 L/min. (56 gpm)	Primary and Secondary Brakes			d filtered oil, multi-disc (ISO 3450)
Hydraulics Type Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump Maximum Pump Flow 212 L/min. (56 gpm)				
Type Closed-center, pressure-compensated load-sensing (PCLS), variable-displacement piston pump  Maximum Pump Flow 212 L/min. (56 gpm)		5 - F	,	
Maximum Pump Flow 212 L/min. (56 gpm)		Closed-center, pressure-compensated los	ad-sensing (PCLS), variable-displacement	piston pump
	<b>7</b> 1	·		pap
IVIAXIMUM SVSTEM PRESSURE IX 961 KPA 17.75U DSU	Maximum System Pressure	18 961 kPa (2,750 psi)		
Pump Displacement 90 cm³ (5.5 cu. in.)	•	•		



22 mm (0.88 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

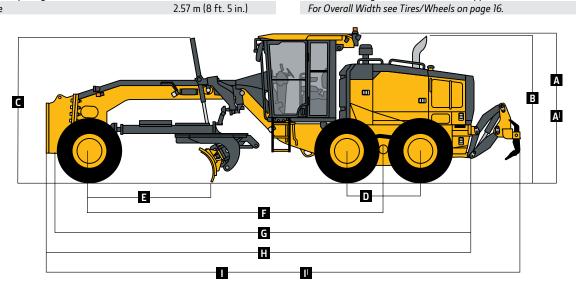
may require modifications or additions to ensure compil		
Blade Function	620G/GP	
	nent of blade-function controls; includes float position; 7 dis	crete saddle positions
Blade Range		
Lift Above Ground	490 mm (19.3 in.)	
Blade Side Shift (right or left)	683 mm (26.9 in.)	
Pitch at Ground Line		
Forward	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	Jo deg.	
At Maximum Operating Weight	14 091 kg (31,066 lb.)	
Electrical	1 1 0 51 kg (51,000 lb.)	
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	224 amp-noui	no amp-noui
Base	130 amp	100 amp
Optional	200 amp	130 amp
·		front and rear LED turn signals and marker lights; LED brake
Lights	and hazard warning lights	Tront and real LLD turn signals and marker rights, LLD brake
Mainframe	and nazard warning lights	
Type	Welded box construction	
туре		
Width (minimum)	207 mm (121 in )	
Width (minimum)	307 mm (12.1 in.)	
Height (minimum)	307 mm (12.1 in.) 307 mm (12.1 in.)	
Height (minimum) Thickness	307 mm (12.1 in.)	
Height (minimum) Thickness Side	307 mm (12.1 in.) 16 mm (0.63 in.)	
Height (minimum) Thickness Side Top and Bottom Plate	307 mm (12.1 in.)	
Height (minimum) Thickness Side Top and Bottom Plate Modulus	307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.)	
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section	307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm <sup>3</sup> (88 cu. in.)	
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle	307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.)	
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle  Draft Frame (drawbar)	307 mm (12.1 in.)  16 mm (0.63 in.)  23 mm (0.89 in.)  1445 cm <sup>3</sup> (88 cu. in.)  2245 cm <sup>3</sup> (137 cu. in.)	
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle  Draft Frame (drawbar) Welded box construction machined for flatne	307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm <sup>3</sup> (88 cu. in.)	
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle  Draft Frame (drawbar) Welded box construction machined for flatno	307 mm (12.1 in.)  16 mm (0.63 in.) 23 mm (0.89 in.)  1445 cm³ (88 cu. in.) 2245 cm³ (137 cu. in.)  ess and double ball-and-socket pivot connection	
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle  Draft Frame (drawbar) Welded box construction machined for flatne	307 mm (12.1 in.)  16 mm (0.63 in.) 23 mm (0.89 in.)  1445 cm³ (88 cu. in.) 2245 cm³ (137 cu. in.)  ess and double ball-and-socket pivot connection hined for flatness	
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle  Draft Frame (drawbar) Welded box construction machined for flatne Circle Welded construction, heat-treated, and machine	307 mm (12.1 in.)  16 mm (0.63 in.) 23 mm (0.89 in.)  1445 cm³ (88 cu. in.) 2245 cm³ (137 cu. in.)  ess and double ball-and-socket pivot connection hined for flatness Standard Circle	Premium Circle
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle  Draft Frame (drawbar) Welded box construction machined for flatne Circle Welded construction, heat-treated, and machine	307 mm (12.1 in.)  16 mm (0.63 in.) 23 mm (0.89 in.)  1445 cm³ (88 cu. in.) 2245 cm³ (137 cu. in.)  ess and double ball-and-socket pivot connection  hined for flatness  Standard Circle 1524 mm (60 in.)	1524 mm (60 in.)
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle  Draft Frame (drawbar) Welded box construction machined for flatne Circle Welded construction, heat-treated, and machine	307 mm (12.1 in.)  16 mm (0.63 in.) 23 mm (0.89 in.)  1445 cm³ (88 cu. in.) 2245 cm³ (137 cu. in.)  ess and double ball-and-socket pivot connection  hined for flatness  Standard Circle 1524 mm (60 in.) 360 deg.	1524 mm (60 in.) 360 deg.
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle  Draft Frame (drawbar) Welded box construction machined for flatne Circle Welded construction, heat-treated, and machine	307 mm (12.1 in.)  16 mm (0.63 in.) 23 mm (0.89 in.)  1445 cm³ (88 cu. in.) 2245 cm³ (137 cu. in.)  ess and double ball-and-socket pivot connection  hined 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
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle  Draft Frame (drawbar) Welded box construction machined for flatne Circle Welded construction, heat-treated, and machine Circle Diameter Rotation Surface Pinion/Ring-Gear Connection	307 mm (12.1 in.)  16 mm (0.63 in.) 23 mm (0.89 in.)  1445 cm³ (88 cu. in.) 2245 cm³ (137 cu. in.)  ess and double ball-and-socket pivot connection  hined 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
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle  Draft Frame (drawbar) Welded box construction machined for flatne Circle Welded construction, heat-treated, and machine Circle Diameter Rotation Surface Pinion/Ring-Gear Connection Drive	307 mm (12.1 in.)  16 mm (0.63 in.) 23 mm (0.89 in.)  1445 cm³ (88 cu. in.) 2245 cm³ (137 cu. in.)  ess and double ball-and-socket pivot connection  hined 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
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle  Draft Frame (drawbar) Welded box construction machined for flatne Circle Welded construction, heat-treated, and machine Circle Diameter Rotation Surface Pinion/Ring-Gear Connection Drive Slip Clutch	307 mm (12.1 in.)  16 mm (0.63 in.)  23 mm (0.89 in.)  1445 cm³ (88 cu. in.)  2245 cm³ (137 cu. in.)  ess and double ball-and-socket pivot connection  hined 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
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle  Draft Frame (drawbar) Welded box construction machined for flatne Circle Welded construction, heat-treated, and mac Circle Diameter Rotation Surface Pinion/Ring-Gear Connection Drive Slip Clutch Circle Side Shift (right and left)	307 mm (12.1 in.)  16 mm (0.63 in.) 23 mm (0.89 in.)  1445 cm³ (88 cu. in.) 2245 cm³ (137 cu. in.)  ess and double ball-and-socket pivot connection  hined 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
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatne Circle Welded construction, heat-treated, and mac Circle Diameter Rotation Surface Pinion/Ring-Gear Connection Drive Slip Clutch Circle Side Shift (right and left) Moldboard	307 mm (12.1 in.)  16 mm (0.63 in.) 23 mm (0.89 in.)  1445 cm³ (88 cu. in.) 2245 cm³ (137 cu. in.)  ess and double ball-and-socket pivot connection  hined 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.)
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatne Circle Welded construction, heat-treated, and mac Circle Diameter Rotation Surface Pinion/Ring-Gear Connection Drive Slip Clutch Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher stren	307 mm (12.1 in.)  16 mm (0.63 in.)  23 mm (0.89 in.)  1445 cm³ (88 cu. in.)  2245 cm³ (137 cu. in.)  ess and double ball-and-socket pivot connection  hined 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.)
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatne Circle Welded construction, heat-treated, and mac Circle Diameter Rotation Surface Pinion/Ring-Gear Connection Drive Slip Clutch Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher stren replaceable wear inserts and quick-adjust jac	307 mm (12.1 in.)  16 mm (0.63 in.)  23 mm (0.89 in.)  1445 cm³ (88 cu. in.)  2245 cm³ (137 cu. in.)  ess and double ball-and-socket pivot connection  hined 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  ekscrew 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.)
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatne Circle Welded construction, heat-treated, and mac Circle Diameter Rotation Surface Pinion/Ring-Gear Connection Drive Slip Clutch Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher stren replaceable wear inserts and quick-adjust jac Base Length	307 mm (12.1 in.)  16 mm (0.63 in.)  23 mm (0.89 in.)  1445 cm³ (88 cu. in.)  2245 cm³ (137 cu. in.)  ess and double ball-and-socket pivot connection  hined 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  ekscrew system  3.66 m (144 in.) (12 ft. 0 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.)
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatne Circle Welded construction, heat-treated, and mac Circle Diameter Rotation Surface Pinion/Ring-Gear Connection Drive Slip Clutch Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher stren replaceable wear inserts and quick-adjust jac Base Length Height (measured along arc, including	307 mm (12.1 in.)  16 mm (0.63 in.)  23 mm (0.89 in.)  1445 cm³ (88 cu. in.)  2245 cm³ (137 cu. in.)  ess and double ball-and-socket pivot connection  hined 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  ekscrew 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.)
Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatne Circle Welded construction, heat-treated, and mac Circle Diameter Rotation Surface Pinion/Ring-Gear Connection Drive Slip Clutch Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher stren replaceable wear inserts and quick-adjust jac Base Length	307 mm (12.1 in.)  16 mm (0.63 in.)  23 mm (0.89 in.)  1445 cm³ (88 cu. in.)  2245 cm³ (137 cu. in.)  ess and double ball-and-socket pivot connection  hined 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  ekscrew system  3.66 m (144 in.) (12 ft. 0 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.)



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	nd hydraulic float	Radial linkage, with 3-pitch positions a	n NeverGrease™ pin joints; V-type manua Ind hydraulic float
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 hydrauli Lift	c float			
Above Ground (top of tube)	1864 mm (73.4 in.)			
Range	988 mm (38.9 in.)			
Rear Ripper/Scarifier	יווו כייסכן וווווו סטכ			
Parallel linkage, with NeverGrease pin joints, I	hydraulic float, and integrated hitch			
raialiei lilikage, with Neverdrease pili joilits, i	= = = = = = = = = = = = = = = = = = = =		Scarifier	
Width of Cut	Ripper 2.21 m (87.2 in.) (7 ft. 3 in.)		2.18 m (86 in.) (7 ft	· 2 in 1
Number of Shanks/Teeth			None standard (ma	
Lift Above Ground	3 (maximum capacity 5) 602 mm (23.7 in.)		810 mm (31.9 in.)	aximum capacity 37
Maximum Depth	426 mm (16.8 in.)		323 mm (12.7 in.)	
Force	720 IIIII (10.0 III.)		(.ווווו כאכ) וווווו כאכ	
	0.202 I (20 E00 IF )			
Penetration	9,302 kg (20,508 lb.)		_	
Pry-Out	11,253 kg (24,808 lb.)			.1
Shank Size	61.5 x 133 mm (2.42 x 5.25 in.)		25 x 76 mm (1 x 3 in	1.)
Operator Station	- 1 FORE (ISO 27 70 200F)			
Low-profile cab with ROPS (ISO 3471-2008) at	na FUP3 (ISU 3449-2005)			
Tires/Wheels	12 2/ 25/ /10 : .   5:	1/ 02/ 25/	(10 to 1 Dto	175D25 - 256 - 41/1   D1-
Miles I Torodo Corred	13x24 on 254-mm (10 in.) Rim	14R24 on 254-mm	(IU In.) KIM	17.5R25 on 356-mm (14 in.) Rim
Wheel Tread on Ground	2.08 m (82 in.)	2.08 m (82.0 in.)		2.16 m (85.0 in.)
Overall Width Ground Clearance (front axle)	2.49 m (98 in.)	2.49 m (98.0 in.)		2.64 m (104.0 in.)
	557 mm (21.9 in.)	587 mm (23.1 in.)		587 mm (23.1 in.)
Serviceability D. Sill Grand Miles	FDA F' - A T' - A A FU SI A A		EDA T' 2 /EU Cr	· · · · · · · · · · · · · · · · · · ·
Refill Capacities	EPA Final Tier 4/EU Stage V			ie IIIA and EPA Tier 2/EU Stage II
Fuel Tank	416.5 L (110 gal.)		303 L (80 gal.)	
Diesel Exhaust Fluid (DEF) Tank	22.5 L (6 gal.)			
Cooling System	51.0 L (13.5 gal.)		44.0 L (11.6 gal.)	
Engine Oil With Filter	31.5 L (8.3 gal.)		26.0 L (6.9 gal.)	
Transmission Fluid	28.4 L (7.5 gal.)		28.4 L (7.5 gal.)	
Differential Housing	38.0 L (10 gal.)		38.0 L (10 gal.)	
Tandem Housings (each)	74.0 L (19.5 gal.)		74.0 L (19.5 gal.)	
Circle Gearbox	5.7 L (1.5 gal.)		5.7 L (1.5 gal.)	
Hydraulic Reservoir	60.5 L (16 gal.)		53.0 L (14 gal.)	
Operating Weights				
With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard				
With 152-mm x 16-mm (6 in. x % in.) Cutting				
Edges, 14-24 Bias L2 Tires, and 79-kg (175 lb.)	FDA F' - A T' - A A FILICIA - A M		EDA T' 2 /EU Cr	
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 ll	
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	υ.]
Equipment				
Front	4940 kg (10,890 lb.)		5096 kg (11,235 lb.)	
Rear	13 386 kg (29,510 lb.)		12 439 kg (27,423 lb	
	<b>3</b> ·		17 535 kg (38,658 lt	
Total	18 325 KG (40.400 ID )			
Total  Maximum Operating Weight	18 325 kg (40,400 lb.) 22 680 kg (50,000 lb.)		22 680 kg (50,000	

	tion Weights	620G/GP
	oldboards With Through-Hardened Dura-Max	
	tting Edge	01 (011)
	3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x 1/8 in.)	0 kg (0 lb.)
	with 152-mm x 16-mm (6 in. x 5% in.) cutting edge	
	and 16-mm (% in.) hardware	
	3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x ½ in.)	45 kg (99 lb.)
	with 203-mm x 19-mm (8 in. x ¾ in.) cutting edge	
	and 16-mm (% in.) hardware	1051 /22111 )
	4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ¾ in.)	105 kg (231 lb.)
	with 152-mm x 16-mm (6 in. x % in.) cutting edge	
	and 16-mm (% in.) hardware	1577   . /277    . )
	4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ¾ in.)	157.4 kg (347 lb.)
	with 203-mm x 19-mm (8 in. x $\frac{3}{4}$ in.) cutting edge	
	and 16-mm (% in.) hardware	
	tensions, 610 mm (2 ft.) (right or left) For Use With 610-mm (24 in.) Moldboards	11C I (DEE IL )
	erlay End Bits, Reversible (one pair)	116 kg (255 lb.)
	For 152-mm (6 in.) Cutting Edge	19.5 kg (43 lb.)
	For 203-mm (8 in.) Cutting Edge	23 kg (51 lb.)
	cle-Drive Slip Clutch	9 kg (20 lb.)
	cle	3 kg (20 lb.)
	Standard	0 kg (0 lb.)
	Premium	289 kg (638 lb.)
	oldboard Impact-Absorption System	43 kg (95 lb.)
	oper, 3 Shank, No Scarifier	1052 kg (2,319 lb.)
	oper/Scarifier, Rear Mounted With Hitch and Ripper	1139 kg (2,510 lb.)
	anks (3)	1133 kg (2,310 lb.)
	arifier Shanks With Teeth (9 for rear ripper/scarifier)	68 kg (150 lb.)
	ar Counterweight With Integral Rear Hitch	727 kg (1,603 lb.)
	ar Hitch	54.4 kg (120 lb.)
	sh Block, Front	907 kg (2,000 lb.)
	arifier	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.)
	ont Lift Group (Balderson-style)	763 kg (1,682 lb.)
	achine Dimensions	r co mg (1,000 men,
	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	2.57 m (8 ft. 5 in.)

Option Weights (continued)	620G/GP
Tires	70 \ / 17/ " \
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	<b>J</b>
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)	J,
Secondary Steering	26 kg (58 lb.)
Beacon Bracket	8 kg (18 lb.)
Fire Extinguisher	14.5 kg (32 lb.)
Lighting Packages	. 113 kg (32 131)
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)	ו.טו כוז) אל כון
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.)
	9.99 m (32 ft. 9 in.)
I Overall Length With Scarifier and Ripper	10.59 m (34 ft. 9 in.)







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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
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 element, dry	Dual element, dry	Dual element, dry
Engine Coolant, Extended Life, Rating	–37 deg. C (–34 deg. F)		
Powertrain	–57 deg. c (–54 deg. 17		
Transmission	Direct drive John Deere PowerShift Plus™	, modulated shift-on-the-go, Event-Based	Shifting (ERS), inching podal: independent
IIdiisiiiissioii			
Gears	transmission reservoir with separate miti-	ation and cooling system with 117-L/min. (3	or gpini gear punip
Forward	8		
Reverse	8		
	<del>-</del>		No tire alia at 2100 ram 1/ 0 D2/ tires
Maximum Travel Speeds	No tire slip at 2,180 rpm, 14.0-R24 tires	C	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 cooled, filtered oil		
Brakes		multiple wet-disc brakes sealed in pressuriz	zed, cooled, filtered oil; both independent
	systems effective on all 4 tandem wheels	3	
Primary and Secondary Brakes		m pivot, self-adjusting, sealed in cooled an	
Parking Brake	Automatically spring applied, hydraulical	ly released, oil cooled, self-adjusting (ISO $\overline{s}$	3450)
Hydraulics			
Type		ad-sensing (PCLS), variable-displacement <sub>ا</sub>	piston pump
· .			
Maximum Pump Flow	212 L/min. (56 gpm)		
Maximum Pump Flow Maximum System Pressure	212 L/min. (56 gpm) 18 961 kPa (2,750 psi) 90 cm³ (5.5 cu. in.)		



22 mm (0.88 in.)



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Thickness

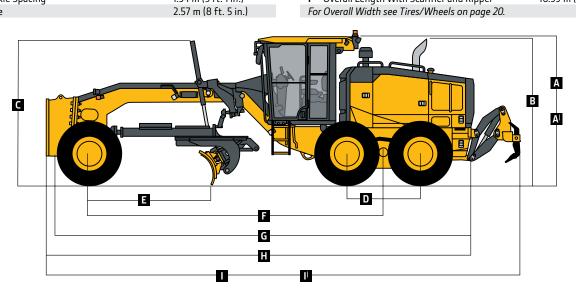
Blade Function	670G/GP	
All-hydraulic, industry-standard lever placem	ent of blade-function controls; includes float position; 7 dis	crete saddle positions
Blade Range		
Lift Above Ground	490 mm (19.3 in.)	
Blade Side Shift (right or left)	683 mm (26.9 in.)	
Pitch at Ground Line		
Forward	42 deg.	
Back	5 deg.	
Shoulder Reach Outside Wheels (frame 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 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	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 with double ball-and-socket pivot connection	
Circle		
Welded construction, heat-treated, machine		
	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		
High-strength, pre-stressed for higher strenger replaceable wear inserts and quick-adjust jac	gth; wear-resistant, high-carbon steel and reversible end bit: kscrew system	s; blade side-shitt wear system includes quick-change
Base Length	3.66 m (144 in.) (12 ft. 0 in.)	
Height (measured along arc, including	610 mm (24 in.)	
cutting edge)	22 mm (0.88 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		
	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 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	00:5 E (10 gai.)	33.0 E (14 gai.)
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.)		
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 Total	11 807 kg (26,030 lb.) 16 000 kg (35,275 lb.)	11 327 kg (24,972 lb.) 15 530 kg (34,237 lb.)
Typical Operating Weight With Front Push Block, Rear Ripper/Scarifier, and Other Equipment	ו.טו ב וצירבו על מסס פו	טו (נבק,דע) אס טכר כו rg (טו אינבן)
Front	5522 kg (12,175 lb.)	5488 kg (12,100 lb.)
Rear	13 708 kg (30,220 lb.)	13 063 kg (28,800 lb.)
	19 73D kg 147 395 lb 1	18 557 kg (40 900 lb )
Total Maximum Operating Weight	19 230 kg (42,395 lb.) 24 948 kg (55,000 lb.)	18 552 kg (40,900 lb.) 24 948 kg (55,000 lb.)

Option Weights	670G/GP
Moldboards With Through-Hardened Dura-Max Cutting Edge	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x ½ in.) with 152-mm x 16-mm (6 in. x ½ in.) cutting edg and 16-mm (% in.) hardware	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x ½ in.) with 203-mm x 19-mm (8 in. x ¾ in.) cutting ed, and 16-mm (% in.) hardware	
3.96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.) with 203-mm x 19-mm (8 in. x ¾ in.) cutting ed and 16-mm (% in.) hardware	180 kg (396 lb.) ge
4.27 m x $610$ mm x $22$ mm ( $14$ ft. x $24$ in. x $%$ in.) with $152$ -mm x $16$ -mm ( $6$ in. x $%$ in.) cutting edgand $16$ -mm ( $%$ in.) hardware	
4.27  m x $610  mm x$ $22  mm$ $(14  ft. x$ $24  in. x$ $%  in.)$ with $203 -mm$ $x$ $19 -mm$ $(8  in. x$ $%  in.)$ cutting ed, and $16 -mm$ $(%  in.)$ hardware	<b>J</b>
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 ed, and 16-mm (% in.) hardware	251 kg (554 lb.) ge
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 edand 19-mm (¾ in.) hardware	261 kg (575 lb.) ge
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.)
Circle	_
Standard	0 kg (0 lb.)
Premium	289 kg (638 lb.)
Moldboard Impact-Absorption System	43 kg (95 lb.)
Ripper/Scarifier, Rear Mounted With Hitch and Ripp Shanks (3)	<b>3</b> ·
Scarifier Shanks With Teeth (9 for rear ripper/scarifi	<i>3</i>
Ripper Shanks and Teeth (2)	63 kg (139 lb.)
Rear Counterweight With Integral Rear Hitch	727 kg (1,603 lb.)
Machine Dimensions	
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
A <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.)
<b>D</b> Tandem Axle Spacing	1.54 m (5 ft. 1 in.)
<b>E</b> 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	<b>-</b>
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	J
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	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	-
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)	
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 in.)
5 0 1140 to 51 000 to 55	







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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	Dadi element, al y	Dadi element, al y	Dadi Cicincine, any
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 117-L/min. (3	
Gears	transmission reservoir with separate filtr	ation and cooming system with 117-E/11111. (2	or gpini, gear pump
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 (4.8 mph)	Gear 8	45.5 km/h (28.3 mph)
Front Axle	Heavy-duty welded fabrication	Geal o	45.5 KIII/ II (20.5 IIIpII)
Oscillation (total)	32 deg.		
	20 deg.		
Wheel Lean Angle (each direction)  Differentials		h type can be applied on-the-go; selectabl	a manual or automatic differential lock
		or maneuverability and productivity; crab si	
Steering (all models include			
steering wheel)		ide-slope stability; return-to-straight cont	roi included in Grade Pro (GP) option
Turning Radius (front steer and	7.21 m (284 in.) (23 ft. 8 in.)		
articulation)	22 4		
Articulation (both right and left)	22 deg.	alad filkanad ail	
Final Drives	Inboard-mounted planetary sealed in coo		and the second of the second of the second of
D I		multiple wet-disc brakes sealed in pressuriz	ea, coolea, filterea oli; both independent
Brakes			
	systems effective on all 4 tandem wheels		1 Ch 1 - 1 12 - 15 - 15 - 27 5 0 3
Brakes  Primary and Secondary Brakes	systems effective on all 4 tandem wheels Hydraulically actuated, inboard of tande	m pivot, self-adjusting, sealed in cooled an	
Primary and Secondary Brakes Parking Brake	systems effective on all 4 tandem wheels Hydraulically actuated, inboard of tande		
Primary and Secondary Brakes Parking Brake <b>Hydraulics</b>	systems effective on all 4 tandem wheels Hydraulically actuated, inboard of tande Automatically spring applied, hydraulical	m pivot, self-adjusting, sealed in cooled an ly released, oil cooled, self-adjusting (ISO 3	3450)
Primary and Secondary Brakes Parking Brake <b>Hydraulics</b> Type	systems effective on all 4 tandem wheels Hydraulically actuated, inboard of tande Automatically spring applied, hydraulical Closed-center, pressure-compensated lo	m pivot, self-adjusting, sealed in cooled an	3450)
Primary and Secondary Brakes Parking Brake <b>Hydraulics</b> Type Maximum Pump Flow	systems effective on all 4 tandem wheels Hydraulically actuated, inboard of tander Automatically spring applied, hydraulical Closed-center, pressure-compensated low 212 L/min. (56 gpm)	m pivot, self-adjusting, sealed in cooled an ly released, oil cooled, self-adjusting (ISO 3	3450)
Primary and Secondary Brakes	systems effective on all 4 tandem wheels Hydraulically actuated, inboard of tande Automatically spring applied, hydraulical Closed-center, pressure-compensated lo	m pivot, self-adjusting, sealed in cooled an ly released, oil cooled, self-adjusting (ISO 3	3450)



22 mm (0.88 in.)



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Thickness

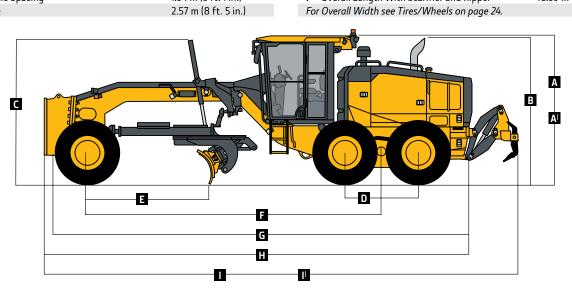
Blade Function	770G/GP	
All-hydraulic, industry-standard lever placer	ment of blade-function controls; includes float position; 7	discrete saddle positions
Blade Range	·	·
Lift Above Ground	490 mm (19.3 in.)	
Blade Side Shift (right or left)	683 mm (26.9 in.)	
Pitch at Ground Line		
Forward	42 deg.	
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	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 headligh and hazard warning lights	nts; front and rear LED turn signals and marker lights; LED brak
Mainframe		
Туре	Welded box construction	
Width (minimum)	307 mm (12.1 in.)	
Height (minimum)	307 mm (12.1 in.)	
Thickness		
Side	16 mm (0.63 in.)	
Top and Bottom Plate	23 mm (0.89 in.)	
Modulus		
Minimum Vertical Section	1770 cm³ (108 cu. in.)	
Average Vertical Section at Saddle	2245 cm³ (137 cu. in.)	
Draft Frame (drawbar)		
Welded box construction machined for flatn	ness with double ball-and-socket pivot connection	
Circle		
Welded construction, heat-treated, machine	ed 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		
High-strength, pre-stressed for higher strer replaceable wear inserts and quick-adjust ja	ngth, wear-resistant, high-carbon steel and reversible end ckscrew system	bits; blade side-shift wear system includes quick-change
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 )	

### 770G/GP

Cutting Edge	770G/GP					
Dura-Max™ through-hardened steel edge	770d/dF					
Thickness	16 mm (0.62 in.)					
Width	152 mm (6 in.)					
Scarifiers	132 11111 (0 111.)					
Scarnicis	Front		Mid-mount			
Туре	V-type toolbar with 2-pitch positions a	and hydraulic float		NeverGrease™ pin joints; V-type manual		
1,700	v type toolsal with 2 piten positions t	ina nyaraane noae				
Width of Cut	1.20 m (48 in.) (4 ft. 0 in.)		3-pitch positions and hydraulic float 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 ir	i.)		
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			
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	9616 kg (21,200 lb.)		-			
Pry-Out	12 730 kg (28,066 lb.)		_			
Shank Size	61.5 x 133 mm (2.42 x 5.25 in.)		25 x 76 mm (1 x 3 in	1.)		
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-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			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.)		- (0.5.1 (13.0 11)			
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) Circle Gearbox	74.0 L (19.5 gal.)		74.0 L (19.5 gal.) 5.7 L (1.5 gal.)			
Hydraulic Reservoir	5.7 L (1.5 gal.)					
,	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, 14R24 L2 Tires, and 79-kg (175 lb.)						
Operator	EPA Final Tier 4/EU Stage V		FPΔ Tier 3/FH Star	ge IIIA and EPA Tier 2/EU Stage II		
Front	4320 kg (9,525 lb.)		4330 kg (9,545 lb.)	and Erri her Er Eo Stage II		
Rear	12 095 kg (26,665 lb.)		11 451 kg (25,245 lb.)			
Total	16 416 kg (36,190 lb.)		15 780 kg (34,790 ll			
Typical Operating Weight With Front Push						
Block, Rear Ripper/Scarifier, and Other						
Equipment Front	5588 kg (12,320 lb.)		5625 kg (12,400 lb.	)		
Equipment	5588 kg (12,320 lb.) 13 837 kg (30,505 lb.)		5625 kg (12,400 lb. 13 186 kg (29,070 lb			
Equipment Front	5588 kg (12,320 lb.) 13 837 kg (30,505 lb.) 19 425 kg (42,825 lb.)		5625 kg (12,400 lb. 13 186 kg (29,070 lb 18 810 kg (41,470 lb	p.)		
Equipment Front Rear	13 837 kg (30,505 lb.)		13 186 kg (29,070 lb	o.) o.)		

Option Weights	770G/GP
Moldboards With Through-Hardened Dura-Max	//UU/UP
Cutting Edge	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x ¾ in.)	0 kg (0 lb.)
with 152-mm x 16-mm (6 in. $x \%$ in.) cutting edge	0 kg (0 lb.)
and 16-mm (% in.) hardware	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x ½ in.)	45 kg (99 lb.)
with 203-mm x 19-mm (8 in. $x \frac{3}{4}$ in.) cutting edge	15 kg (55 lb.)
and 16-mm (% 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	<b>3</b>
and 16-mm (⅓ 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 (¾ 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 $\frac{3}{4}$ in.) cutting edge	
and 16-mm (¾ 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 $\frac{3}{4}$ in.) cutting edge	
and 19-mm (¾ 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)	1051 (/21)
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	01 (015)
Standard	0 kg (0 lb.)
Premium Moldhoard Impact Absorption System	289 kg (638 lb.)
Moldboard Impact-Absorption System	43 kg (95 lb.)
Ripper/Scarifier, Rear Mounted With Hitch and Ripper Shanks (3)	1139 kg (2,510 lb.)
Scarifier Shanks With Teeth (9 for rear ripper/scarifier)	68 kg (150 lb.)
Ripper Shanks and Teeth (2)	63 kg (139 lb.)
Rear Counterweight With Integral Rear Hitch	727 kg (1,603 lb.)
Rear Hitch	54.4 kg (120 lb.)
Machine Dimensions	J-1.7 NY (120 ID.)
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
Al Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)
B Height to Top of Exhaust	3.10 m (10 ft. 2 in.)
C Height to Top of Blade-Lift Cylinders	3.05 m (10 ft. 0 in.)
D Tandem Axle Spacing	1.54 m (5 ft. 1 in.)
E Blade Base	2.57 m (8 ft. 5 in.)

Ontion Mainhea ( II	770 <i>C (C</i> D				
Option Weights (continued)	770G/GP				
Push Block, Front Scarifier	1338 kg (2,950 lb.)				
	021 / /2022 // \				
Front Mount With Teeth (5)	831 kg (1,833 lb.)				
Mid-Mount With Teeth (11)	1481 kg (3,265 lb.)				
Front Lift Group (Balderson-style)	763 kg (1,682 lb.)				
Tires					
14.00-24, 12 PR G2	–220.4 kg (–486 lb.)				
17.5-25, 12 PR G2/L2	–106 kg (–234 lb.)				
14.00-R24, Radial, G2/L2 General Purpose	0 kg (0 lb.)				
14.00-R24, Radial, G2/L2 Snow	40.8 kg (90 lb.)				
17.5-R25, Radial, L2 General Purpose	51.7 kg (114 lb.)				
17.5-R25, Radial, G2/L2 Snow	95.3 kg (210 lb.)				
17.5-R25, Radial, G3/L3 General Purpose	141.5 kg (312 lb.)				
550/65R25 XLD70 G3/L3 Radial, General Purpose	495.3 kg (1,092 lb.)				
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	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					
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)					
F Wheelbase	6.16 m (20 ft. 3 in.)				
<b>G</b> Overall Length 8.89 m (29 ft					
H Overall Length With Scarifier	9.69 m (31 ft. 9 in.)				
I Overall Length With Push Block and Ripper	9.99 m (32 ft. 9 in.)				
I Overall Length With Scarifier and Ripper	10.59 m (34 ft. 9 in.)				
3 11					





# SZOG/GP SPECIFICATIONS

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.

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 element, dry	Dual element, dry	Dual element, dry				
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 (EBS), inching padal: independent				
II dii Siiii SSi Oii							
Gears	transmission reservoir with separate miti-	ation and cooling system with 121-L/min. (3	oz gpili) gear pullip				
Forward	8						
Reverse	8						
	<del>-</del>		No time alia at 2100 anno 175 D25 times				
Maximum Travel Speeds	No tire slip at 2,180 rpm, 17.5-R25 tires	C	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						
Oscillation (total)	32 deg.						
Wheel Lean Angle (each direction)	20 deg.		l a less and the				
Differentials		h type can be applied on-the-go; selectabl					
Steering (all models include		or maneuverability and productivity; crab st					
steering wheel)		de-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.						
		Inboard-mounted planetary sealed in cooled, filtered oil					
	Foot-controlled, hydraulically operated, r	nultiple wet-disc brakes sealed in pressuriz	ed, cooled, filtered oil; both independent				
Brakes	Foot-controlled, hydraulically operated, r systems effective on all 4 tandem wheels	nultiple wet-disc brakes sealed in pressuriz ;					
Brakes Primary and Secondary Brakes	Foot-controlled, hydraulically operated, r systems effective on all 4 tandem wheels Hydraulically actuated, inboard of tander	nultiple wet-disc brakes sealed in pressuriz ; n pivot, self-adjusting, sealed in cooled an	d filtered oil, multi-disc (ISO 3450)				
<b>Brakes</b> Primary and Secondary Brakes  Parking Brake	Foot-controlled, hydraulically operated, r systems effective on all 4 tandem wheels Hydraulically actuated, inboard of tander	nultiple wet-disc brakes sealed in pressuriz ;	d filtered oil, multi-disc (ISO 3450)				
Parking Brake Hydraulics	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) 450)				
Brakes  Primary and Secondary Brakes Parking Brake  Hydraulics Type	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 ; n pivot, self-adjusting, sealed in cooled an	d filtered oil, multi-disc (ISO 3450) 450)				
Brakes Primary and Secondary Brakes Parking Brake Hydraulics Type Maximum Pump Flow	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 loa 218 L/min. (57.5 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) 450)				
Brakes Primary and Secondary Brakes Parking Brake  Hydraulics	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) 450)				





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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 straight, right or left)	2329 mm (91.7 in.) (7 ft. 8 in.)	
Bank Cut Angle (right or left)	90 deg.	
Blade Pull		
At Maximum Operating Weight	15 501 kg (34,173 lb.)	
Electrical	3,000	
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	22+ amp-noui	224 dilip-lioui
Base	130 amp	100 amp
Optional	200 amp	130 amp
Lights		front and rear LED turn signals and marker lights; LED brake
_	and hazard warning lights	Hone and real ELD turn signals and marker lights, ELD brake
Mainframe		
Type	Welded box construction	
Width (minimum)	307 mm (12.1 in.)	
Height (minimum)	307 mm (12.1 in.)	
Thickness		
Side	16 mm (0.63 in.)	
Top and Bottom Plate	30 mm (1.17 in.)	
Modulus		
Minimum Vertical Section	1770 cm³ (108 cu. in.)	
Average Vertical Section at Saddle	2635 cm³ (161 cu. in.)	
Draft Frame (drawbar)		
Welded box construction machined for flatne	ess with double ball-and-socket pivot connection equipped w	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.)
Circle Side Shirt (right dha lert)		707 mm GHII.
Moldhoard	707 Hilli (51 Hi.)	
Moldboard High strangth pro strassed for higher strange		
	gth, wear-resistant, high-carbon steel and reversible end bits	

4.27 m (168 in.) (14 ft. 0 in.)

686 mm (27 in.)

25 mm (1 in.)

Base Length

cutting edge)

Thickness

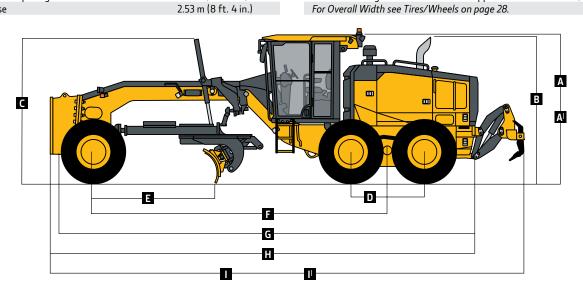
Height (measured along arc, including

### 870G/GP

Cutting Edge	870G/GP			
Dura-Max™ through-hardened steel edge	6/0d/dF			
Thickness	19 mm (0.75 in.)			
Width	203 mm (8 in.)			
Scarifiers	203 11111 (6 111.)			
Scarifiers	Front		Mid-mount	
т		added a Pattern		N. C. M.
Туре	V-type toolbar with 2-pitch positions a	na nyaraulic float		ı NeverGrease™ pin joints; V-type manual
Width of Cut	1.20 m (48 in.) (4 ft. 0 in.)		3-pitch positions a	
			1.19 m (46.7 in.) (3 f	t. II in.)
Number of Shanks/Teeth	5 (maximum capacity 9)		]]	
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	3/6 /F== . \			
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 hydrauli	c 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, l	nydraulic 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 (ma	
Lift Above Ground	602 mm (23.7 in.)		810 mm (31.9 in.)	aximum cupacity 37
Maximum Depth	426 mm (16.8 in.)		323 mm (12.7 in.)	
Force	420 11111 (10.0 111.)		J2J IIIII (12.7 III.)	
	10 2/ 0   / /22 57/    /			
Penetration	10 240 kg (22,574 lb.)		_	
Pry-Out	13 623 kg (30,034 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	L FORG (150 27 / 0 2005)			
Low-profile cab with ROPS (ISO 3471-2008) a	nd FOPS (ISO 3449-2005)			
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 Stag	ie IIIA and EPA Tier 2/EU Stage II
Fuel Tank	416.5 L (110 gal.)		416.5 L (110 gal.)	3
Diesel Exhaust Fluid (DEF) Tank	22.5 L (6 gal.)			
Cooling System				
Engine Oil With Filter	55.U L (14.5 gal.)		48.5 L (12.8 gal.)	
Transmission Fluid	55.0 L (14.5 gal.) 28 4 L (75 gal.)		48.5 L (12.8 gal.)	
	28.4 L (7.5 gal.)		28.0 L (7.4 gal)	
	28.4 L (7.5 gal.) 23.5 L (6.2 gal.)		28.0 L (7.4 gal) 28.4 L (7.5 gal.)	
Differential Housing	28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.)		28.0 L (7.4 gal) 28.4 L (7.5 gal.) 38.0 L (10 gal.)	
Differential Housing Tandem Housings (each)	28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)		28.0 L (7.4 gal) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	
Differential Housing Tandem Housings (each) Circle Gearbox	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.)		28.0 L (7.4 gal) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	
Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir	28.4 L (7.5 gal.) 23.5 L (6.2 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)		28.0 L (7.4 gal) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	
Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir <mark>Operating Weights</mark>	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.)		28.0 L (7.4 gal) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	
Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 4.27-m x 686-mm x	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.)		28.0 L (7.4 gal) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	
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	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.)		28.0 L (7.4 gal) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	
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 ¾ in.) Cutting	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.)		28.0 L (7.4 gal) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	
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 ¾ in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.)	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.)		28.0 L (7.4 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.)	
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 ¾ in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator	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.)		28.0 L (7.4 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
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 ¾ in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator Front	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.)		28.0 L (7.4 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 4556 kg (10,045 lb.)	1
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 ¾ in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator	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.)  EPA Final Tier 4/EU Stage V 4547 kg (10,025 lb.) 12 499 kg (27,555 lb.)		28.0 L (7.4 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 4556 kg (10,045 lb.) 11 854 kg (26,134 lb.)	) .)
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 ¾ in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator Front	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.)		28.0 L (7.4 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 4556 kg (10,045 lb.)	) .)
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 ¾ in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total	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.)  EPA Final Tier 4/EU Stage V 4547 kg (10,025 lb.) 12 499 kg (27,555 lb.)		28.0 L (7.4 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 4556 kg (10,045 lb.) 11 854 kg (26,134 lb.)	) .)
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 ¾ in.) Cutting Edges, 17.5R25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight With Front Push	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.)  EPA Final Tier 4/EU Stage V 4547 kg (10,025 lb.) 12 499 kg (27,555 lb.)		28.0 L (7.4 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 4556 kg (10,045 lb.) 11 854 kg (26,134 lb.)	) .)
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 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	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.)  EPA Final Tier 4/EU Stage V 4547 kg (10,025 lb.) 12 499 kg (27,555 lb.)		28.0 L (7.4 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 4556 kg (10,045 lb.) 11 854 kg (26,134 lb.)	) .)
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 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	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.)  EPA Final Tier 4/EU Stage V 4547 kg (10,025 lb.) 12 499 kg (27,555 lb.) 17 046 kg (37,580 lb.)		28.0 L (7.4 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 4556 kg (10,045 lb.) 11 854 kg (26,134 lb) 16 410 kg (36,179 lb)	) .) .)
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 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	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.)  EPA Final Tier 4/EU Stage V 4547 kg (10,025 lb.) 12 499 kg (27,555 lb.) 17 046 kg (37,580 lb.)		28.0 L (7.4 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 4556 kg (10,045 lb.) 11 854 kg (26,134 lb.) 16 410 kg (36,179 lb.) 6035 kg (13,305 lb.)	) .) .)
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 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	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.)  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.) 14 734 kg (32,484 lb.)		28.0 L (7.4 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 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 lb.	) .) .) ) b.)
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 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	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.)  EPA Final Tier 4/EU Stage V 4547 kg (10,025 lb.) 12 499 kg (27,555 lb.) 17 046 kg (37,580 lb.)		28.0 L (7.4 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 4556 kg (10,045 lb.) 11 854 kg (26,134 lb.) 16 410 kg (36,179 lb.) 6035 kg (13,305 lb.)	) .) .) ) b.) b.)

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 (½ 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 (5% 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 ¾ 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)	120   /265    /
For Use With 686-mm (27 in.) Moldboards	120 kg (265 lb.)
Overlay End Bits, Reversible (one pair)	10 5 1 / (2 11 )
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	01.7011.1
Standard	0 kg (0 lb.)
Premium	255 kg (562 lb.) 43 kg (95 lb.)
Moldboard Impact-Absorption System	<b>J</b> · · · ·
Ripper/Scarifier, Rear Mounted With Hitch and Ripper Shanks (3)	1139 kg (2,510 lb.)
	CO I (150 IF )
Scarifier Shanks With Teeth (9 for rear ripper/scarifier)	68 kg (150 lb.)
Ripper Shanks and Teeth (2) Rear Counterweight With Integral Rear Hitch	63 kg (139 lb.) 727 kg (1,603 lb.)
Rear Hitch	3
Push Block, Front	54.4 kg (120 lb.)
Scarifier	1338 kg (2,950 lb.)
Front Mount With Teeth (5)	021 log /1 022 lb \
Mid-Mount With Teeth (11)	831 kg (1,833 lb.) 1481 kg (3,265 lb.)
	1401 Kg (5,205 lb.)
Machine Dimensions	3.18 m (10 ft. 5 in.)
A Height to Top of Cab	3.40 m (11 ft. 2 in.)
A <sup>I</sup> Height to Top of Full-Height Cab  B Height to Top of Exhaust	3.40 m (11 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.)
E Didue Dase	(۱۱۱ (۱۱. 4 ۱۱۱ رد. ۲

Option Weights (continued)	870G/GP
Front Lift Group (Balderson-style)	763 kg (1,682 lb.)
Tires	705 kg (1,002 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, G2/L2 Show	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, G2/L2 Silow 20.5-R25, Radial, G3/L3 General Purpose	474 kg (313 lb.)
1-Piece Rims	4/4 Kg (1,043 lb.)
330 mm x 635 mm (13 in. x 25 in.)	-201.4 kg (-444 lb.)
Multi-Piece Rims	-201.4 kg (-444 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.)
4-32 min x 0-33 min (17 m. x 23 m.) Fenders	34.4 kg (120 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	15 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 (51 lb.)
Secondary Steering	26 kg (58 lb.)
Beacon Bracket	8 kg (18 lb.)
Fire Extinguisher	14.5 kg (32 lb.)
Lighting Packages	. 113 kg (32 131)
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 lb.)
F Wheelbase	6.16 m (20 ft. 3 in.)
G Overall Length	8.89 m (29 ft. 2 in.)
H Overall Length With Scarifier	9.69 m (31 ft. 9 in.)
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 in.)
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# 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)
•	•	•	•	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])
$\blacktriangle$		$\blacktriangle$		Opening front and side windows (standard with	<b>A</b>	$\blacktriangle$			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	<b>A</b>	•	•	•	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		<b>-</b>	_	<b>-</b>	Premium grading lights (18 LED lights)
•	•	•	•	Upper front windshield washers with intermittent		_	_	<u> </u>	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)
<b>A</b>	<b>A</b>	$\blacktriangle$	<b>A</b>	Lower front intermittent wiper and washer		•		•	LED brake and turn lights
				Powered cab precleaner					Moldboard
<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	Decelerator pedal					Patented pre-stressed, high strength, wear resistant:
<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	Flip-down, right- and/or left-hand cab beacon	•	•			3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x 1/2 in.)
	_			with bracket		<b>A</b>			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 1/8 in.)
•	•	•	•	Front window sun visor				•	4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)
<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	Retractable rear sunshade					4.88 m x 686 mm x 25 mm (16 ft. x 27 in. x 1 in.)
•	•	•	•	Rearview mirrors, exterior (2) (SAE J985) Heated exterior mirrors (2) (SAE J985)	•	•	•	•	Quick-change and jackscrew-adjustable moldboard
_	_	_	_	Fire extinguisher					side-shift extreme-duty wear inserts
•	•	•	•	High-resolution rear camera with dedicated in-cab	•	•	•		610-mm (24 in.) left- or right-hand extensions for 610-mm (24 in.) moldboard
•	•	•	•	monitor (in some markets) High-resolution front/rear-camera combination			•	•	610-mm (24 in.) left- or right-hand extensions for
				with dedicated in-cab monitor					686-mm (27 in.) moldboard
•	•	•	•	Retractable seat belt, 76 mm (3 in.) (SAE 386)	_	_	_	<b>A</b>	Reversible overlay endbits
<b>A</b>	•	•	•	AM/FM radio with auxiliary and Weather Band (WB)					Overall Vehicle
_	_	_	_	AM/FM radio with Bluetooth®, auxiliary, and	•	•	•	•	JDLink™ wireless communication system (available in specific countries; see your dealer for details)
_		_	_	WB ready			_	_	Ground-level fuel and diesel exhaust fluid (DEF) filling
•	•	•	•	Push-button-activated cruise control	•		•		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)

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

See your John Deere dealer for further information.

620	670	770	870	Overall Vehicle (continued)	620	670	770	870	Front Attachments
•	•	•	•	Vandal-protection locking for: Cab doors / Top tank		_	lack	<b>A</b>	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 /	_	_	_	<b>A</b>	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, transmission, hydraulic, differential fluids, and					Rear Attachments
				engine coolant	•	•	•	•	Full bottom guard with access panel and side guards 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 hydraulic, transmission, and axle fluids					rear hitch and pin, 3 ripper shanks
•	•	•	•	Engine rotary ejector precleaner	<b>A</b>		<u> </u>		Rear counterweight with rear hitch and pin
•		•		Automatic differential lock		<b>A</b>	<b>A</b>	<b>A</b>	Rear hitch and pin
•	•	•	•	Engine-stall prevention and auto shutdown	<b>A</b>	•	•	•	Extra scarifier shanks (9) with teeth for rear ripper scarifier
	•	•	•	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
	<b>A</b>	<b>A</b>	•	Single-input circle drive with slip clutch Heavy-duty dual-input circle drive without slip clutch	•	•	•	•	Low-profile GP cab with opening lower front and side windows
		$\blacktriangle$		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
				AutoShift transmission	•	•	•	•	Premium heated, leather/fabric, high-wide-back,
				Blade-impact-absorption system					air-suspension seat with armrests
				Front and/or rear wheel fenders	<b>A</b>	lack			Dual-joystick controls
•	•	•	•	Quick-service bank for transmission, hydraulic, engine oil, and engine coolant fluid changes	<b>A</b>	•	•	<b>A</b>	Fingertip armrest-mounted controls including steering lever
$\blacksquare$	<b>A</b>	<b>A</b>	<b>A</b>	Secondary steering	•	•	•	•	Steering wheel
				Sound-absorption package (Tier 3/Stage IIIA and	•	•	•	•	Cross-slope
				Tier 2/Stage II)		•	•	•	Return to straight
				Wheel chocks					Grade Control
				Automation	<b>_</b>	<b>A</b>	<b>A</b>	<b>A</b>	SmartGrade
				Automation Suite including Auto-Articulation,					Mast mounts
				Blade Flip, and Machine Presets (standard on	<b>A</b>	<b>A</b>	•	<b>A</b>	Topcon ready available on G and GP models
				SmartGrade™ models, optional on GP models)			lack		Trimble ready available on G and GP models
				Auto-Articulation					•
	lack		lack	Blade Flip					
				Machine Presets					



### 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 factory-integrated SmartGrade™ configurations. Dual-joystick controls on GP models. 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.** 

