

# G-series

4WD

6WD

4WD | 620G | 670G plus | 770G | 870G

6WD | 672G plus | 772G | 872G

Motor Graders



CHOOSE HOW  
YOU WORK

**BELL**



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.

Expanded grade-control system options. 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, or running a land-leveling crew.



GRADE-CONTROL  
SYSTEM READY

## Improved horsepower and torque

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

## The right power for the job

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

## Multipurpose for your multiple purposes

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

## Save fuel with Eco mode

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



# Sight for sore eyes

ENVISION MORE PRODUCTIVITY.

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



EXPANSIVE  
VISIBILITY



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**Exceptional view**

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

**Store your stuff**

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

**Lighting the way**

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

**Easy-access park brake**

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

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

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



# Keep downtime down

SO MUCH TO DO, SO LITTLE TIME.

Uptime isn't everything. It's the only thing. Which is why G-Series Graders are loaded with durability-enhancing advantages that help deliver years of trouble-free service.

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

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. Reversible fan speeds core cleanout in high-debris applications.

## Robust, easy-to-clean cooling package

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

## Auto shutdown reduces fuel use and wear

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



STANDARD  
REVERSING FAN





# Get it done with ease

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## **Fast, simple ground-level access**

All daily service points, including fuel, are grouped on the left side for quick and convenient ground-level access.

On the right side, maintenance personnel will appreciate the easy-access hydraulic, transmission, and differential filter bank.





# 620G 4WD SPECIFICATIONS



## ENGINE

**Manufacturer and Model**  
John Deere PowerTech™ 6,8 L

**Non-Road Emission Standard**  
EPA Tier 2/EU Stage II

**Cylinders**  
6

**Displacement**  
6,8 L (414 cu. in.)

### Net Engine Power

Gear 1	108 kW (145 hp)
Gear 2	119 kW (160 hp)
Gear 3	131 kW (175 hp)
Gear 4	134 kW (180 hp)
Gear 5	138 kW (185 hp)
Gear 6	138 kW (185 hp)
Gear 7	138 kW (185 hp)
Gear 8	138 kW (185 hp)

**Net Peak Torque**  
831 Nm (613 lb.-ft.)

**Net Torque Rise**  
44%

**Aspiration**  
Turbocharged, charge-air cooled

**Lubrication**  
Full-flow spin-on filter and integral cooler

**Air Cleaner with Restriction Indicator**  
Dual element, dry

## COOLING

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

## POWERTRAIN

**Transmission**  
Direct-drive John Deere PowerShift Plus™, modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; independent transmission reservoir with separate filtration and cooling system with 117-L/min. (31 gpm) gear pump

**Gears**  
Forward 8  
Reverse 8

**Maximum Travel Speeds**  
No tyre slip at 2 180 rpm

Gear 1	4,0 km/h (2.5 mph)
Gear 2	5,6 km/h (3.5 mph)
Gear 3	7,7 km/h (4.8 mph)
Gear 4	10,9 km/h (6.8 mph)
Gear 5	16,4 km/h (10.2 mph)
Gear 6	23,2 km/h (14.4 mph)
Gear 7	32,3 km/h (20.1 mph)
Gear 8	45,5 km/h (28.3 mph)

**Front Axle**  
Heavy-duty welded fabrication

**Oscillation (total):**  
32 deg.

**Wheel Lean Angle (each direction):**  
20 deg.

## Differentials

Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic differential lock

## Steering (all models include steering wheel)

All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) option

## Turning Radius (front steer and articulation)

7,21 m (284 in.) (23 ft. 8 in.)

## Articulation (both right and left)

22 deg.

## Final Drives

Inboard-mounted planetary sealed in cooled, filtered oil

## Brakes

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

## Primary and Secondary Brakes

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

## Parking Brake

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

## HYDRAULICS

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

**Maximum Pump Flow**  
212 L/min. (56 gpm)

**Maximum System Pressure**  
18 961 kPa (2 750 psi)

**Pump Displacement**  
90 cm<sup>3</sup> (5.5 cu. in.)

## BLADE FUNCTION

All-hydraulic, industry-standard lever placement of blade-function controls; includes float position; 7 discrete saddle positions

## Blade Range

Lift Above Ground:  
490 mm (19.3 in.)

Blade Side Shift (right or left):  
683 mm (26.9 in.)

**Pitch at Ground Line:**  
Forward 42 deg.  
Back 5 deg.

Shoulder Reach Outside Wheels (frame straight, right or left):  
2 083 mm (82 in.) (6 ft. 10 in.)

Bank Cut Angle (right or left):  
90 deg.

## BLADE PULL

At Maximum Operating Weight:  
14 091 kg (31 066 lb.)

## ELECTRICAL

Solid-state load center and sealed switch module

**Voltage**  
24 volt

**Number of Batteries**  
2

**Battery Capacity**  
950 CCA

**Reserve Capacity**  
190 min.

**Amp-Hour Rating**  
110 amp-hour

**Alternator Rating**  
Base: 100 amp  
Optional: 130 amp

## Lights

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

## MAINFRAME

**Type**  
Welded box construction

**Width (minimum):**  
307 mm (12.1 in.)

**Height (minimum):**  
307 mm (12.1 in.)

**Thickness:**  
Side: 16 mm (0.63 in.)  
Top and Bottom Plate: 23 mm (0.89 in.)

**Modulus:**  
Minimum Vertical Section:  
1 445 cm<sup>3</sup> (88 cu. in.)

Average Vertical Section at Saddle:  
2 245 cm<sup>3</sup> (137 cu. in.)

## DRAFT FRAME (DRAWBAR)

Welded box construction machined for flatness with double ball-and-socket pivot connection equipped with quick-change replaceable wear inserts

## CIRCLE

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

Circle Diameter:

1 524 mm (60 in.)

**Rotation:**  
360 deg.

**Drive:**  
Hydraulic motor and worm gear with positive lock

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

## MOLDBOARD

High-strength, pre-stressed for higher strength; wear-resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable wear inserts and quick-adjust jackscrew system

**Base Length:**  
4,27 (168 in.) (14 ft.)

**Height (measured along arc, including cutting edge):**  
610 mm (24 in.)

**Thickness:**  
22 mm (0.88 in.)

## CUTTING EDGE

Dura-Max™ through-hardened steel edge

**Thickness:**  
16 mm (0.62 in.)

**Width:**  
152 mm (6 in.)

## SCARIFIERS (620G 4WD)

**Type**  
Front: V-type toolbar with manual 2-pitch positions and hydraulic float.

Mid-Mount: Radial linkage, with NeverGrease™ pin joints; V-type manual 3-pitch positions and hydraulic float

**Width of Cut**  
Front: 1.20 m (48 in.) (4 ft. 0 in.)

Mid-Mount: 1.19 m (46.7 in.) (3 ft. 11 in.)

**Number of Shanks/Teeth**  
Front: 5 (maximum capacity 9)

Mid-Mount: 11

**Lift Above Ground**  
Front: 589 mm (23.2 in.)

Mid-Mount: 335 mm (13.2 in.)

**Maximum Depth**  
Front: 335 mm (13.2 in.)

Mid-Mount: 325 mm (12.8 in.)

**Shank: Spacing**  
Front: 146 mm (5.75 in.)  
Mid-Mount: 117 mm (54.6 in.)

**Shank: Size**  
Front: 25 x 76 mm (1 x 3 in.)  
Mid-Mount: 25 x 76 mm (1 x 3 in.)

## FRONT LIFT GROUP



### (BALDERSON-STYLE)

Parallel linkage, mechanical pins, and hydraulic float

#### Lift

Above Ground (top of tube):  
1 864 mm (73.4 in.)

Range:  
988 mm (38.9 in.)

### REAR RIPPER/SCARIFIER

Parallel linkage, with NeverGrease pin joints, hydraulic float, and integrated hitch

#### Width of Cut

Ripper: 2,21 m (87.2 in.) (7 ft. 3 in.)

Scarifier: 2,18 m (86 in.) (7 ft. 2 in.)

#### Number of Shanks/Teeth

Ripper: 3 (maximum capacity 5)

Scarifier: None standard (maximum capacity 9)

#### Lift Above Ground

Ripper: 602 mm (23.7 in.)

Scarifier: 810 mm (31.9 in.)

#### Maximum Depth

Ripper: 426 mm (16.8 in.)

Scarifier: 323 mm (12.7 in.)

#### Force at Typical FT4 Weight Penetration

Ripper: 9 296 kg (20,494 lb.)

#### Pry-Out

Ripper: 11 222 kg (24,740 lb.)

#### Shank Size

Ripper: 61,5 x 133 mm (2.42 x 5.25 in.)

Scarifier: 25 x 76 mm (1 x 3 in.)

### OPERATOR STATION

Low-profile cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005)

### TYRES/WHEELS

#### Standard:

17.5x25 L4 12 Ply

• Wheel Tread on Ground:  
2,16 m (85.0 in.)

• Overall Width:  
2,64 m (104.0 in.)

• Ground Clearance (front axle):  
587 mm (23.1 in.)

### SERVICEABILITY

#### Refill Capacities:

##### Fuel Tank:

303 L (80 gal.)

##### Cooling System:

44,0 L (11.6 gal.)

##### Engine Oil with Filter:

26,0 L (6.9 gal.)

##### Transmission Fluid:

28,4 L (7.5 gal.)

#### Differential Housing:

38,0 L (10 gal.)

#### Tandem Housings (each):

74,0 L (19.5 gal.)

#### Circle Gearbox:

5,7 L (1.5 gal.)

#### Hydraulic Reservoir:

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 5/8 in.) Cutting Edges, 13-24 Bias L2 Tyres, and 79-kg (175 lb.)

#### Operator:

Front: 4 207 kg (9,275 lb.)

Rear: 10 671 kg (23,525 lb.)

Total: 14 878 kg (32,800 lb.)

• Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment

Front: 5 080 kg (11,200 lb.)

Rear: 12 428 kg (27,400 lb.)

Total: 17 509 kg (38,600 lb.)

#### Maximum Operating Weight:

22 680 kg (50,000 lb.)

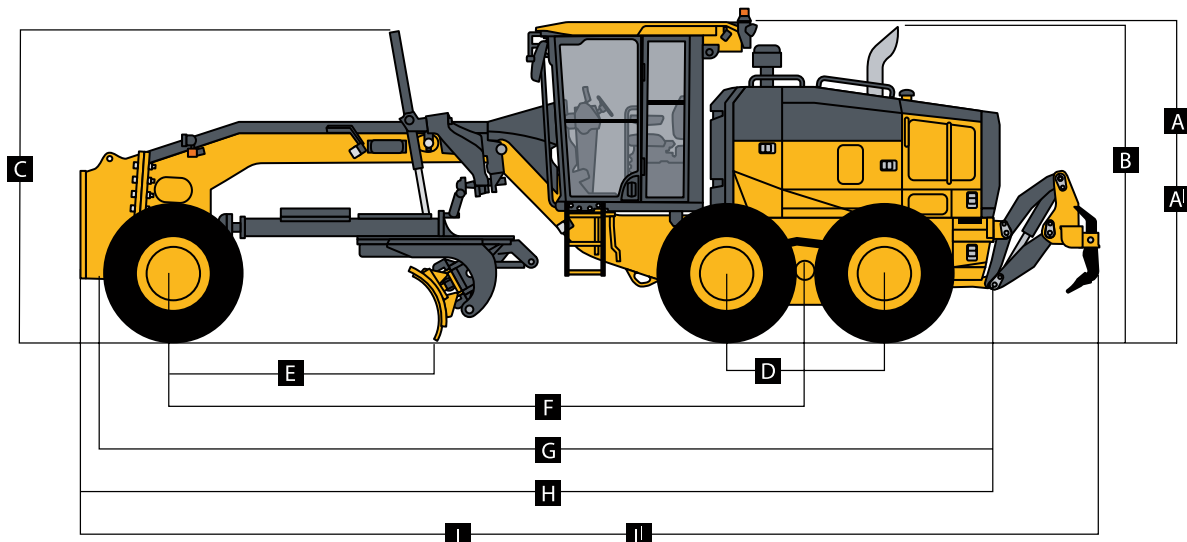
### MACHINE DIMENSIONS

<b>A</b>	Height to Top of Cab	3,18 m (10 ft. 5 in.)
<b>AI</b>	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.)
<b>C</b>	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.)

### continued...

<b>F</b>	Wheelbase	6,16 m (20 ft. 3 in.)
<b>G</b>	Overall Length	8,89 m (29 ft. 2 in.)
<b>H</b>	Overall Length with Scarifier	9,69 m (31 ft. 9 in.)
<b>I</b>	Overall Length with Push Block and Ripper	9,99 m (32 ft. 9 in.)
<b>I'</b>	Overall Length with Scarifier and Ripper	10,59 m (34 ft. 9 in.)

For Overall Width see Tyres/Wheels



**Option Weights** **670G 4WD**

<b>Moldboards with Through-Hardened Dura-Max Cutting Edge</b>	
3,66 m x 610 mm x 22 mm (12 ft. x 24 in. x 7/8 in.) with 152 mm x 16 mm (6 in. x 5/8 in.) cutting edge and 16 mm (5/8 in.) hardware .....	0 kg (0 lb.)
3,66 m x 610 mm x 22 mm (12 ft. x 24 in. x 7/8 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware .....	45 kg (99 lb.)
4,27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/8 in.) with 152 mm x 16 mm (6 in. x 5/8 in.) cutting edge and 16 mm (5/8 in.) hardware .....	105 kg (231 lb.)
4,27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/8 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware .....	157,4 kg (347 lb.)
<b>Extensions, 610 mm (2 ft.) (right or left)</b>	
For Use with 610 mm (24 in.) Moldboards .....	116 kg (255 lb.)
<b>Overlay End Bits, Reversible (one pair)</b>	
For 152 mm (6 in.) Cutting Edge .....	19,5 kg (43 lb.)
For 203 mm (8 in.) Cutting Edge .....	23 kg (51 lb.)
Circle-Drive Slip Clutch .....	9 kg (20 lb.)
Moldboard Impact-Absorption System .....	43 kg (95 lb.)
Ripper, 3 Shank, No Scarifier .....	1 052 kg (2,139 lb.)
Ripper/Scarifier, Rear Mounted with Hitch and Ripper Shanks (3) .....	1 139 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.)
Push Block, Front .....	907 kg (2,000 lb.)
<b>Scarifier</b>	
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.)
<b>Tyres</b>	
13.00-24, 12 PR G2 .....	-79 kg (1174 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.)
<b>1-Piece Rims</b>	
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.)
<b>Multi-Piece Rims</b>	
254 mm x 610 mm (10 in. x 24 in.) .....	180 kg (396 lb.)
356 mm x 635 mm (14 in. x 25 in.) .....	267 kg (588 lb.)
<b>Fenders</b>	
Front .....	77 kg (169 lb.)
Rear .....	141 kg (310 lb.)
Low Cab with Opening Front and Side Windows .....	14,5 kg (32 lb.)
Premium Air-Suspension, Heated Seat with Adjustable Arm- and Headrests .....	13 kg (28 lb.)
Coolant Heater .....	4 kg (9 lb.)
Quick Service .....	11 kg (24 lb.)
Sound-Absorption Package (machines equipped with Tier 3/Stage IIIA and Tier 2/Stage II engines only) .....	14 kg (31 lb.)
Secondary Steering .....	26 kg (58 lb.)
Beacon Bracket .....	8 kg (18 lb.)
Fire Extinguisher .....	14,5 kg (32 lb.)
<b>Lighting Packages</b>	
10 Halogen Lights .....	4,5 kg (10 lb.)
16 Halogen Lights .....	7 kg (16 lb.)
18 Halogen Lights .....	8 kg (18 lb.)
High-Front Light Bar for Snowplowing .....	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls .....	7 kg (15 lb.)
Hydraulics for Front-Mounted Equipment .....	9 kg (19 lb.)



# 670G PLUS 4WD SPECIFICATIONS



## ENGINE

**Manufacturer and Model**  
John Deere PowerTech™ 9.0 L

**Non-Road Emission Standard**  
EPA Tier 2/EU Stage II

**Cylinders**  
6

**Displacement**  
9,0 L (548 cu. in.)

**Net Engine Power**

Gear 1	123 kW (165 hp)
Gear 2	134 kW (180 hp)
Gear 3	146 kW (195 hp)
Gear 4	153 kW (205 hp)
Gear 5	157 kW (210 hp)
Gear 6	164 kW (220 hp)
Gear 7	168 kW (225 hp)
Gear 8	172 kW (230 hp)

**Net Peak Torque**  
1 204 Nm (888 lb.-ft.)

**Net Torque Rise**  
63%

**Aspiration**  
Turbocharged, charge-air cooled

**Lubrication**  
Full-flow spin-on filter and integral cooler

**Air Cleaner with Restriction Indicator**  
Dual element, dry

## COOLING

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

## POWERTRAIN

**Transmission**  
Direct-drive John Deere PowerShift Plus™, modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; independent transmission reservoir with separate filtration and cooling system with 117-L/min. (31 gpm) gear pump

**Gears**  
Forward 8  
Reverse 8

**Maximum Travel Speeds**  
No tyre slip at 2 180 rpm

Gear 1	4,0 km/h (2.5 mph)
Gear 2	5,6 km/h (3.5 mph)
Gear 3	7,7 km/h (4.8 mph)
Gear 4	10,9 km/h (6.8 mph)
Gear 5	16,4 km/h (10.2 mph)
Gear 6	23,2 km/h (14.4 mph)
Gear 7	32,3 km/h (20.1 mph)
Gear 8	45,5 km/h (28.3 mph)

**Front Axle**  
Heavy-duty welded fabrication

**Oscillation (total):**  
32 deg.

**Wheel Lean Angle (each direction):**  
20 deg.

**Differentials**  
Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic differential lock

**Steering (all models include steering wheel)**  
All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) option

**Turning Radius (front steer and articulation):**  
7,21 m (284 in.) (23 ft. 8 in.)

**Articulation (both right and left):**  
22 deg.

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

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

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

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

## HYDRAULICS

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

**Maximum Pump Flow:**  
212 L/min. (56 gpm)

**Maximum System Pressure:**  
18 961 kPa (2,750 psi)

**Pump Displacement:**  
90 cm<sup>3</sup> (5.5 cu. in.)

## BLADE FUNCTION

All-hydraulic, industry-standard lever placement of blade-function controls; includes float position; 7 discrete saddle positions

**Blade Range**  
**Lift Above Ground:**  
490 mm (19.3 in.)

**Blade Side Shift (right or left):**  
683 mm (26.9 in.)

**Pitch at Ground Line:**  
Forward 42 deg.  
Back 5 deg.

**Shoulder Reach Outside Wheels (frame straight, right or left):**  
2 083 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

**Voltage:**  
24 volt

**Number of Batteries:**  
2

**Battery Capacity:**  
1 400 CCA

**Reserve Capacity:**  
440 min.

**Amp-Hour Rating:**  
224 amp-hour

**Alternator Rating:**  
Base 100 amp  
Optional 130 amp

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

## MAINFRAME

**Type:**  
Welded box construction

**Width (minimum):**  
307 mm (12.1 in.)

**Height (minimum):**  
307 mm (12.1 in.)

**Thickness:**  
Side: 16 mm (0.63 in.)  
Top and Bottom Plate: 23 mm (0.89 in.)

**Modulus:**  
**Minimum Vertical Section:**  
1 445 cm<sup>3</sup> (88 cu. in.)

**Average Vertical Section at Saddle:**  
2 245 cm<sup>3</sup> (137 cu. in.)

## DRAFT FRAME (DRAWBAR)

Welded box construction machined for flatness with double ball-and-socket pivot connection equipped with quick-change replaceable wear inserts

## CIRCLE

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

**Circle Diameter:**  
1 524 mm (60 in.)

**Rotation:**  
360 deg.

**Drive:**  
Hydraulic motor and worm gear with positive lock

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

## MOLDBOARD

High-strength, pre-stressed for higher strength; wear-resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable wear inserts and quick-adjust jackscrew system

**Base Length:**  
4,27 m (168 in.) (14 ft.)

**Height (measured along arc, including cutting edge):**  
610 mm (24 in.)

**Thickness:**  
22 mm (0.88 in.)

## CUTTING EDGE

Dura-Max™ through-hardened steel edge

**Thickness:**  
16 mm (0.62 in.)

**Width:**  
152 mm (6 in.)

## SCARIFIERS (670G 4WD)

**Type**  
Front: V-type toolbar with manual 2-pitch positions and hydraulic float.

**Mid-Mount:** Radial linkage, with NeverGrease™ pin joints; V-type manual 3-pitch positions and hydraulic float

**Width of Cut**  
Front: 1.20 m (48 in.) (4 ft. 0 in.)

**Mid-Mount:** 1.19 m (46.7 in.) (3 ft. 11 in.)

**Number of Shanks/Teeth**  
Front: 5 (maximum capacity 9)

**Mid-Mount:** 11

**Lift Above Ground**  
Front: 589 mm (23.2 in.)

**Mid-Mount:** 335 mm (13.2 in.)

**Maximum Depth**  
Front: 335 mm (13.2 in.)

**Mid-Mount:** 325 mm (12.8 in.)

### Shank: Spacing

Front: 146 mm (5.75 in.)  
Mid-Mount: 117 mm (54.6 in.)

### Shank: Size

Front: 25 x 76 mm (1 x 3 in.)  
Mid-Mount: 25 x 76 mm (1 x 3 in.)

### FRONT LIFT GROUP (BALDERSON-STYLE)

Parallel linkage, mechanical pins, and hydraulic float

### Lift:

Above Ground (top of tube):  
1 864 mm (73.4 in.)

### Range:

988 mm (38.9 in.)

### REAR RIPPER/SCARIFIER

Parallel linkage, with NeverGrease pin joints, hydraulic float, and integrated hitch

### Width of Cut

Ripper: 2,21 m (87.2 in.) (7 ft. 3 in.)

Scarifier: 2,18 m (86 in.) (7 ft. 2 in.)

### Number of Shanks/Teeth

Ripper: 3 (maximum capacity 5)

Scarifier: None standard (maximum capacity 9)

### Lift Above Ground

Ripper: 602 mm (23.7 in.)

Scarifier: 810 mm (31.9 in.)

### Maximum Depth

Ripper: 426 mm (16.8 in.)

Scarifier: 323 mm (12.7 in.)

### Force at Typical FT4 Weight Penetration

Ripper: 9 520 kg (20,987 lb.)

### Pry-Out

Ripper: 12 544 kg (27,656 lb.)

### Shank Size

Ripper: 61,5 x 133 mm (2.42 x 5.25 in.)

Scarifier: 25 x 76 mm (1 x 3 in.)

### OPERATOR STATION

Low-profile cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005)

### TYRES/WHEELS

#### Standard:

17.5x25 L4

• Wheel Tread on Ground:  
2,16 m (85.0 in.)

• Overall Width:  
2,64 m (104.0 in.)

• Ground Clearance (front axle):  
587 mm (23.1 in.)

### SERVICEABILITY

#### Refill Capacities:

9,0L engine

#### Fuel Tank:

416,5 L (110 gal.)

#### Cooling System:

48,5 L (12.8 gal.)

#### Engine Oil with Filter:

28,0 L (7.4 gal.)

#### Transmission Fluid:

28,4 L (7.5 gal.)

#### Differential Housing:

38,0 L (10 gal.)

#### Tandem Housings (each):

74,0 L (19.5 gal.)

#### Circle Gearbox:

5,7 L (1.5 gal.)

#### Hydraulic Reservoir:

53,0 L (14 gal.)

### Operator:

Front: 4 188 kg (9,232 lb.)

Rear: 11 316 kg (24,948 lb.)

Total: 15 504 kg (34,180 lb.)

• Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment

Front: 5 476 kg (12,072 lb.)

Rear: 13 053 kg (28,778 lb.)

Total: 18 529 kg (40,850 lb.)

Maximum Operating Weight:  
24 948 kg (55,000 lb.)

### OPERATING WEIGHTS

• With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Cutting Edges, 14-24 Bias L2 Tyres, and 79-kg (175 lb.)

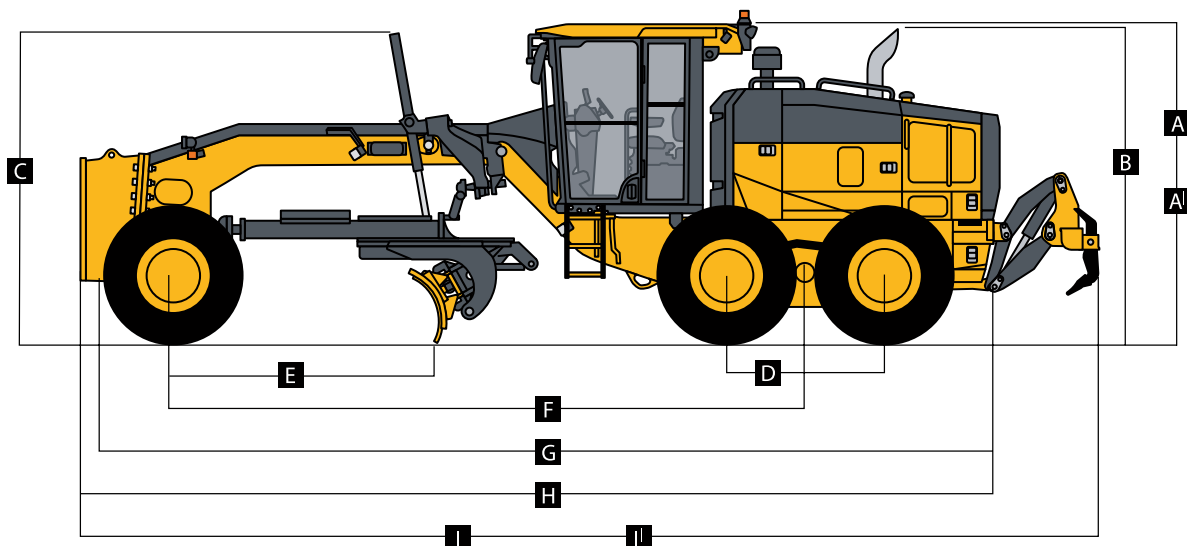
### MACHINE DIMENSIONS

<b>A</b>	Height to Top of Cab	3,18 m (10 ft. 5 in.)
<b>AI</b>	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.)
<b>C</b>	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.)

### continued...

<b>F</b>	Wheelbase	6,16 m (20 ft. 3 in.)
<b>G</b>	Overall Length	8,89 m (29 ft. 2 in.)
<b>H</b>	Overall Length with Scarifier	9,69 m (31 ft. 9 in.)
<b>I</b>	Overall Length with Push Block and Ripper	9,99 m (32 ft. 9 in.)
<b>I'</b>	Overall Length with Scarifier and Ripper	10,59 m (34 ft. 9 in.)

For Overall Width see Tyres/Wheels



## Option Weights

670G 4WD

### Moldboards with Through-Hardened Dura-Max Cutting Edge

3,66 m x 610 mm x 22 mm (12 ft. x 24 in. x 7/8 in.) with 152 mm x 16 mm (6 in. x 5/8 in.) cutting edge and 16 mm (5/8 in.) hardware .....	0 kg (0 lb.)
3,66 m x 610 mm x 22 mm (12 ft. x 24 in. x 7/8 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware .....	45 kg (99 lb.)
3,66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware .....	126 kg (277 lb.)
3,96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware .....	180 kg (396 lb.)
4,27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/8 in.) with 152 mm x 16 mm (6 in. x 5/8 in.) cutting edge and 16 mm (5/8 in.) hardware.....	105 kg (231 lb.)
4,27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/8 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware.....	157,4 kg (347 lb.)
4,27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware .....	251 kg (554 lb.)
4,27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 19 mm (3/4 in.) hardware.....	261 kg (575 lb.)

### Extensions, 610 mm (2 ft.) (right or left)

For Use with 610 mm (24 in.) Moldboards .....	116 kg (255 lb.)
For Use with 686 mm (27 in.) Moldboards .....	120 kg (265 lb.)

### Overlay End Bits, Reversible (one pair)

For 152 mm (6 in.) Cutting Edge.....	19,5 kg (43 lb.)
For 203 mm (8 in.) Cutting Edge.....	23 kg (51 lb.)

Heavy-Duty Dual-Input Circle-Drive Gearbox.....	14 kg (31 lb.)
Circle-Drive Slip Clutch .....	9 kg (20 lb.)
Moldboard Impact-Absorption System .....	43 kg (95 lb.)
Ripper/Scarifier, Rear Mounted with Hitch and Ripper Shanks (3).....	1 139 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.)
Push Block, Front .....	1 338 kg (2,950 lb.)

### Scarifier

Teeth (5).....	831 kg (1,833 lb.)
Mid-Mount with Teeth (11) .....	1 481 kg (3,265 lb.)

Front Lift Group (Balderson-style) .....	763 kg (1,682 lb.)
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### Tyres

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 .....	77 kg (169 lb.)
Rear .....	141 kg (310 lb.)

Low Cab with Opening Front and Side Windows .....	14,5 kg (32 lb.)
Premium Air-Suspension, Heated Seat with Adjustable Arm- and Headrests .....	13 kg (28 lb.)
Coolant Heater .....	4 kg (9 lb.)
Quick Service .....	11 kg (24 lb.)
Sound-Absorption Package (machines equipped with Tier 3/Stage IIIA and Tier 2/Stage II engines only).....	14 kg (31 lb.)
Secondary Steering .....	26 kg (58 lb.)
Beacon Bracket .....	8 kg (18 lb.)
Fire Extinguisher .....	14,5 kg (32 lb.)

### Lighting Packages

10 Halogen Lights .....	4,5 kg (10 lb.)
16 Halogen Lights .....	7 kg (16 lb.)
18 Halogen Lights .....	8 kg (18 lb.)

High-Front Light Bar for Snowplowing.....	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls.....	7 kg (15 lb.)
Hydraulics for Front-Mounted Equipment.....	9 kg (19 lb.)



# 770G 4WD SPECIFICATIONS



## ENGINE

**Manufacturer and Model**  
John Deere PowerTech™ 9.0 L

**Non-Road Emission Standard**  
EPA Tier 2/EU Stage II

**Cylinders**  
6

**Displacement**  
9.0 L (548 cu. in.)

**Net Engine Power**

Gear 1	138 kW (185 hp)
Gear 2	149 kW (200 hp)
Gear 3	160 kW (215 hp)
Gear 4	168 kW (225 hp)
Gear 5	172 kW (230 hp)
Gear 6	179 kW (240 hp)
Gear 7	183 kW (245 hp)
Gear 8	187 kW (250 hp)

**Net Peak Torque**  
1 291 Nm (952 lb.-ft.)

**Net Torque Rise**  
64%

**Aspiration**  
Turbocharged, charge-air cooled

**Lubrication**  
Full-flow spin-on filter and integral cooler

**Air Cleaner with Restriction Indicator**  
Dual element, dry

## COOLING

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

## POWERTRAIN

**Transmission**  
Direct-drive John Deere PowerShift Plus™, modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; independent transmission reservoir with separate filtration and cooling system with 117-L/min. (31 gpm) gear pump

**Gears**  
Forward 8  
Reverse 8

**Maximum Travel Speeds**  
No tyre slip at 2 180 rpm

Gear 1	4.0 km/h (2.5 mph)
Gear 2	5.6 km/h (3.5 mph)
Gear 3	7.7 km/h (4.8 mph)
Gear 4	10.9 km/h (6.8 mph)
Gear 5	16.4 km/h (10.2 mph)
Gear 6	23.2 km/h (14.4 mph)
Gear 7	32.3 km/h (20.1 mph)
Gear 8	45.5 km/h (28.3 mph)

**Front Axle**  
Heavy-duty welded fabrication

**Oscillation (total):**  
32 deg.

**Wheel Lean Angle (each direction):**  
20 deg.

**Differentials**  
Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic differential lock

**Steering (all models include steering wheel)**  
All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) option

**Turning Radius (front steer and articulation):**  
7,21 m (284 in.) (23 ft. 8 in.)

**Articulation (both right and left):**  
22 deg.

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

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

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

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

## HYDRAULICS

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

**Maximum Pump Flow:**  
212 L/min. (56 gpm)

**Maximum System Pressure:**  
18 961 kPa (2,750 psi)

**Pump Displacement:**  
90 cm<sup>3</sup> (5.5 cu. in.)

## BLADE FUNCTION

All-hydraulic, industry-standard lever placement of blade-function controls; includes float position; 7 discrete saddle positions

**Blade Range**  
Lift Above Ground:  
490 mm (19.3 in.)

**Blade Side Shift (right or left):**  
683 mm (26.9 in.)

**Pitch at Ground Line:**  
Forward 42 deg.  
Back 5 deg.

**Shoulder Reach Outside Wheels (frame straight, right or left):**  
2 083 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

**Voltage:**  
24 volt

**Number of Batteries:**  
2

**Battery Capacity:**  
1 400 CCA

**Reserve Capacity:**  
440 min.

**Amp-Hour Rating:**  
224 amp-hour

**Alternator Rating:**  
Base: 100 amp  
Optional: 130 amp

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

## MAINFRAME

**Type:**  
Welded box construction

**Width (minimum):**  
307 mm (12.1 in.)

**Height (minimum):**  
307 mm (12.1 in.)

**Thickness:**  
Side: 16 mm (0.63 in.)  
Top and Bottom Plate: 23 mm (0.89 in.)

**Modulus:**  
Minimum Vertical Section:  
1 770 cm<sup>3</sup> (108 cu. in.)

**Average Vertical Section at Saddle:**  
2 245 cm<sup>3</sup> (137 cu. in.)

## DRAFT FRAME (DRAWBAR)

Welded box construction machined for flatness with double ball-and-socket pivot connection equipped with quick-change replaceable wear inserts

## CIRCLE

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

**Circle Diameter:**  
1 524 mm (60 in.)

**Rotation:**  
360 deg.

**Drive:**  
Hydraulic motor and worm gear with positive lock

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

## MOLDBOARD

High-strength, pre-stressed for higher strength; wear-resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable wear inserts and quick-adjust jackscrew system

**Base Length:**  
4,27 m (168 in.) (14 ft.)

**Height (measured along arc, including cutting edge):**  
686 mm (27 in.)

**Thickness:**  
25 mm (1 in.)

## CUTTING EDGE

Dura-Max™ through-hardened steel edge

**Thickness:**  
16 mm (0.62 in.)

**Width:**  
152 mm (6 in.)

## SCARIFIERS (770G 4WD)

**Type**  
Front: V-type toolbar with manual 2-pitch positions and hydraulic float

Mid-Mount: Radial linkage, with NeverGrease™ pin joints; V-type manual 3-pitch positions and hydraulic float

**Width of Cut**  
Front: 1,20 m (48 in.) (4 ft. 0 in.)

Mid-Mount: 1,19 m (46.7 in.) (3 ft. 11 in.)

**Number of Shanks/Teeth**  
Front: 5 (maximum capacity 9)

Mid-Mount: 11

**Lift Above Ground**  
Front: 589 mm (23.2 in.)

Mid-Mount: 335 mm (13.2 in.)

**Maximum Depth**  
Front: 335 mm (13.2 in.)

Mid-Mount: 325 mm (12.8 in.)

**Shank: Spacing**  
Front: 146 mm (5.75 in.)  
Mid-Mount: 117 mm (54.6 in.)

**Shank: Size**  
Front: 25 x 76 mm (1 x 3 in.)  
Mid-Mount: 25 x 76 mm (1 x 3 in.)

## FRONT LIFT GROUP (BALDERSON-STYLE)

Parallel linkage, mechanical pins, and hydraulic float

### Lift

Above Ground (top of tube):  
1 864 mm (73.4 in.)

### Range:

988 mm (38.9 in.)

## REAR RIPPER/SCARIFIER

Parallel linkage, with NeverGrease pin joints, hydraulic float, and integrated hitch

### Width of Cut

Ripper: 2,21 m (87.2 in.) (7 ft. 3 in.)

Scarifier: 2,18 m (86 in.) (7 ft. 2 in.)

### Number of Shanks/Teeth

Ripper: 3 (maximum capacity 5)

Scarifier: None standard (maximum capacity 9)

### Lift Above Ground

Ripper: 602 mm (23.7 in.)

Scarifier: 810 mm (31.9 in.)

### Maximum Depth

Ripper: 426 mm (16.8 in.)

Scarifier: 323 mm (12.7 in.)

### Force at Typical FT4 Weight Penetration

Ripper: 9 608 kg (21,182 lb.)

### Pry-Out

Ripper: 12 689 kg (27,974 lb.)

### Shank Size

Ripper: 61,5 x 133 mm (2.42 x 5.25 in.)

Scarifier: 25 x 76 mm (1 x 3 in.)

## OPERATOR STATION

Low-profile cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005)

## TYRES/WHEELS

Standard:  
17.5x25 L4

- Wheel Tread on Ground:  
2,16 m (85.0 in.)

- Overall Width:  
2,64 m (104.0 in.)

- Ground Clearance (front axle):  
587 mm (23.1 in.)

## SERVICEABILITY

### Refill Capacities:

Fuel Tank:  
416,5 L (110 gal.)

Cooling System:  
48,5 L (12.8 gal.)

Engine Oil with Filter:  
27,0 L (7.1 gal.)

Transmission Fluid:  
28,4 L (7.5 gal.)

Differential Housing:  
38,0 L (10 gal.)

Tandem Housings (each):  
74,0 L (19.5 gal.)

Circle Gearbox:  
5,7 L (1.5 gal.)

Hydraulic Reservoir:  
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 5/8 in.) Cutting Edges, 14R24 L2 Tyres, and 79-kg (175 lb.)

### Operator:

Front: 4 314 kg (9,510 lb.)

Rear: 11 440 kg (25,220 lb.)

Total: 15 753 kg (34,730 lb.)

- Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment

Front: 5 605 kg (12,358 lb.)

Rear: 13 175 kg (29,047 lb.)

Total: 18 781 kg (41,405 lb.)

Maximum Operating Weight:  
24 948 kg (55,000 lb.)

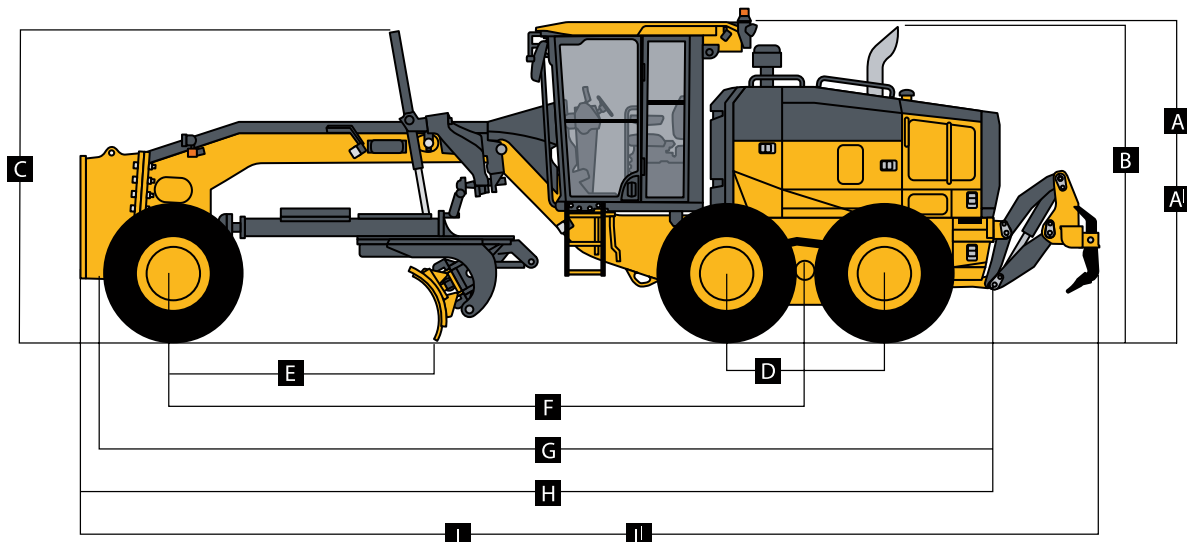
## MACHINE DIMENSIONS

<b>A</b>	Height to Top of Cab	3,18 m (10 ft. 5 in.)
<b>AI</b>	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.)
<b>C</b>	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.)

## continued...

<b>F</b>	Wheelbase	6,16 m (20 ft. 3 in.)
<b>G</b>	Overall Length	8,89 m (29 ft. 2 in.)
<b>H</b>	Overall Length with Scarifier	9,69 m (31 ft. 9 in.)
<b>I</b>	Overall Length with Push Block and Ripper	9,99 m (32 ft. 9 in.)
<b>I'</b>	Overall Length with Scarifier and Ripper	10,59 m (34 ft. 9 in.)

For Overall Width see Tyres/Wheels



**Option Weights** **770G 4WD**

<b>Moldboards with Through-Hardened Dura-Max Cutting Edge</b>	
3,66 m x 610 mm x 22 mm (12 ft. x 24 in. x 7/8 in.) with 152 mm x 16 mm (6 in. x 5/8 in.) cutting edge and 16 mm (5/8 in.) hardware .....	0 kg (0 lb.)
3,66 m x 610 mm x 22 mm (12 ft. x 24 in. x 7/8 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware .....	45 kg (99 lb.)
3,66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware .....	126 kg (277 lb.)
3,96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware .....	180 kg (396 lb.)
4,27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/8 in.) with 152 mm x 16 mm (6 in. x 5/8 in.) cutting edge and 16 mm (5/8 in.) hardware.....	105 kg (231 lb.)
4,27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/8 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware.....	157,4 kg (347 lb.)
4,27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware .....	251 kg (554 lb.)
4,27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 19 mm (3/4 in.) hardware.....	261 kg (575 lb.)
<b>Extensions, 610 mm (2 ft.) (right or left)</b>	
For Use with 610 mm (24 in.) Moldboards .....	116 kg (255 lb.)
For Use with 686 mm (27 in.) Moldboards .....	120 kg (265 lb.)
<b>Overlay End Bits, Reversible (one pair)</b>	
For 152 mm (6 in.) Cutting Edge.....	19,5 kg (43 lb.)
For 203 mm (8 in.) Cutting Edge.....	23 kg (51 lb.)
Circle-Drive Slip Clutch.....	9 kg (20 lb.)
Moldboard Impact-Absorption System .....	43 kg (95 lb.)
Ripper/Scarifier, Rear Mounted with Hitch and Ripper Shanks (3).....	1 139 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.)
Push Block, Front .....	1 338 kg (2,950lb.)
<b>Scarifier</b>	
Teeth (5).....	831 kg (1,833 lb.)
Mid-Mount with Teeth (11) .....	1 481 kg (3,265 lb.)
Front Lift Group (Balderson-style) .....	763 kg (1,682 lb.)
<b>Tyres</b>	
14.00-24, 12 PR G2.....	-220,4 kg (-486lb.)
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.)
<b>1-Piece Rims</b>	
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.)
<b>Multi-Piece Rims</b>	
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.)
<b>Fenders</b>	
Front .....	77 kg (169 lb.)
Rear .....	141 kg (310 lb.)
<b>Low Cab with Opening Front and Side Windows .....</b>	
Premium Air-Suspension, Heated Seat with Adjustable Arm- and Headrests .....	14,5 kg (32 lb.)
Coolant Heater .....	13 kg (28 lb.)
Coolant Heater .....	4 kg (9 lb.)
Quick Service .....	11 kg (24 lb.)
Sound-Absorption Package (machines equipped with Tier 3/Stage IIIA and Tier 2/Stage II engines only).....	14 kg (31 lb.)
Secondary Steering .....	26 kg (58 lb.)
Beacon Bracket .....	8 kg (18 lb.)
Fire Extinguisher .....	14,5 kg (32 lb.)
<b>Lighting Packages</b>	
10 Halogen Lights .....	4,5 kg (10 lb.)
16 Halogen Lights .....	7 kg (16 lb.)
18 Halogen Lights .....	8 kg (18 lb.)
High-Front Light Bar for Snowplowing.....	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls .....	7 kg (15 lb.)
Hydraulics for Front-Mounted Equipment .....	9 kg (19 lb.)





# 870G 4WD SPECIFICATIONS



## ENGINE

### Manufacturer and Model

John Deere PowerTech™ 9.0 L

### Non-Road Emission Standard

EPA Tier 2/EU Stage II

### Cylinders

6

### Displacement

9,0 L (548 cu. in.)

### Net Engine Power

Gear 1	153 kW (205 hp)
Gear 2	164 kW (220 hp)
Gear 3	175 kW (235 hp)
Gear 4	183 kW (245 hp)
Gear 5	187 kW (250 hp)
Gear 6	194 kW (260 hp)
Gear 7	198 kW (265 hp)
Gear 8	201 kW (270 hp)

### Net Peak Torque

1 329 Nm (980 lb.-ft.)

### Net Torque Rise

57%

### Aspiration

Turbocharged, charge-air cooled

### Lubrication

Full-flow spin-on filter and integral cooler

### Air Cleaner with Restriction Indicator

Dual element, dry

## COOLING

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

## POWERTRAIN

### Transmission

Direct-drive John Deere PowerShift Plus™, modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; independent transmission reservoir with separate filtration and cooling system with 121-L/min. (32 gpm) gear pump

### Gears

Forward 8  
Reverse 8

### Maximum Travel Speeds

No tyre slip at 2 180 rpm

Gear 1	3,9 km/h (2.4 mph)
Gear 2	5,6 km/h (3.5 mph)
Gear 3	7,9 km/h (4.9 mph)
Gear 4	10,9 km/h (6.8 mph)
Gear 5	16,7 km/h (10.4 mph)
Gear 6	23,3 km/h (14.5 mph)
Gear 7	32,2 km/h (20.0 mph)
Gear 8	45,0 km/h (28.0 mph)

### Front Axle

Heavy-duty welded fabrication

### Oscillation (total):

32 deg.

### Wheel Lean Angle (each direction):

20 deg.

### Differentials

Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic differential lock

### Steering (all models include steering wheel)

All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) option

### Turning Radius (front steer and articulation):

7,21 m (284 in.) (23 ft. 8 in.)

### Articulation (both right and left):

22 deg.

### Final Drives

Inboard-mounted planetary sealed in cooled, filtered oil

### Brakes

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

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

### Parking Brake:

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

## HYDRAULICS

### Type:

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

### Maximum Pump Flow:

218 L/min. (57.5 gpm)

### Maximum System Pressure:

18 961 kPa (2,750 psi)

### Pump Displacement:

90 cm<sup>3</sup> (5.5 cu. in.)

## BLADE FUNCTION

All-hydraulic, industry-standard lever placement of blade-function controls; includes float position; 7 discrete saddle positions

### Blade Range

#### Lift Above Ground:

452 mm (17.8 in.)

#### Blade Side Shift (right or left):

683 mm (26.9 in.)

#### Pitch at Ground Line:

Forward 42 deg.

Back 5 deg.

#### Shoulder Reach Outside Wheels

(frame straight, right or left):

2 329 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

Solid-state load center and sealed switch module

#### Voltage:

24 volt

#### Number of Batteries:

2

#### Battery Capacity:

1 400 CCA

#### Reserve Capacity:

440 min.

#### Amp-Hour Rating:

224 amp-hour

#### Alternator Rating:

Base: 100 amp

Optional: 130 amp

### Lights

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

## MAINFRAME

### Type:

Welded box construction

#### Width (minimum):

307 mm (12.1 in.)

#### Height (minimum):

307 mm (12.1 in.)

#### Thickness:

Side: 16 mm (0.63 in.)

Top and Bottom Plate: 30 mm

(1.17 in.)

#### Modulus:

Minimum Vertical Section:

1 770 cm<sup>3</sup> (108 cu. in.)

#### Average Vertical Section at Saddle:

2 635 cm<sup>3</sup> (161 cu. in.)

## DRAFT FRAME (DRAWBAR)

Welded box construction machined for flatness with double ball-and-socket pivot connection equipped with quick-change replaceable wear inserts

## CIRCLE

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

#### Circle Diameter:

1 524 mm (60 in.)

#### Rotation:

360 deg.

#### Drive:

Hydraulic motor and worm gear with positive lock

#### Circle Side Shift (right and left):

787 mm (31 in.)

## MOLDBOARD

High-strength, pre-stressed for higher strength; wear-resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable wear inserts and quick-adjust jackscrew system

#### Base Length:

4,88 m (16 ft.)

#### Height (measured along arc,

including cutting edge):

686 mm (27 in.)

#### Thickness:

25 mm (1 in.)

## CUTTING EDGE

Dura-Max™ through-hardened steel edge

#### Thickness:

19 mm (0.75 in.)

#### Width:

203 mm (8 in.)

## SCARIFIERS

### Type

Front: V-type toolbar with manual 2-pitch positions and hydraulic float.

Mid-Mount: Radial linkage, with NeverGrease™ pin joints; V-type manual 3-pitch positions and hydraulic float

#### Width of Cut

Front: 1,20 m (48 in.) (4 ft. 0 in.)

Mid-Mount: 1,19 m (46.7 in.)

(3 ft. 11 in.)

#### Number of Shanks/Teeth

Front: 5 (maximum capacity 9)

Mid-Mount: 11

#### Lift Above Ground

Front: 589 mm (23.2 in.)

Mid-Mount: 335 mm (13.2 in.)

#### Maximum Depth

Front: 335 mm (13.2 in.)

Mid-Mount: 325 mm (12.8 in.)

#### Shank: Spacing

Front: 146 mm (5.75 in.)

Mid-Mount: 117 mm (54.6 in.)

#### Shank: Size

Front: 25 x 76 mm (1 x 3 in.)

Mid-Mount: 25 x 76 mm (1 x 3 in.)

## FRONT LIFT GROUP (BALDERSON-STYLE)

Parallel linkage, mechanical pins, and hydraulic float

### Lift

Above Ground (top of tube):  
1 864 mm (73.4 in.)

### Range:

988 mm (38.9 in.)

## REAR RIPPER/SCARIFIER

Parallel linkage, with NeverGrease pin joints, hydraulic float, and integrated hitch

### Width of Cut

Ripper: 2.21 m (87.2 in.) (7 ft. 3 in.)

Scarifier: 2.18 m (86 in.) (7 ft. 2 in.)

### Number of Shanks/Teeth

Ripper: 3 (maximum capacity 5)

Scarifier: None standard (maximum capacity 9)

### Lift Above Ground

Ripper: 602 mm (23.7 in.)

Scarifier: 810 mm (31.9 in.)

### Maximum Depth

Ripper: 426 mm (16.8 in.)

Scarifier: 323 mm (12.7 in.)

### Force at Typical FT4 Weight Penetration

Ripper: 10 087 kg (22,238 lb.)

### Pry-Out

Ripper: 13 185 kg (29,068 lb.)

### Shank Size

Ripper: 61,5 x 133 mm (2.42 x 5.25 in.)

Scarifier: 25 x 76 mm (1 x 3 in.)

## OPERATOR STATION

Low-profile cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005)

## TYRES/WHEELS

Standard:  
17.5x25 L4

- Wheel Tread on Ground: 2,16 m (85.0 in.)

- Overall Width: 2,64 m (104.0 in.)

- Ground Clearance (front axle): 587 mm (23.1 in.)

## SERVICEABILITY

### Refill Capacities:

Fuel Tank:  
416,5 L (110 gal.)

Cooling System:  
48,5 L (12.8 gal.)

Engine Oil with Filter:  
27,0 L (7.1 gal.)

Transmission Fluid:  
28,4 L (7.5 gal.)

Differential Housing:  
38,0 L (10 gal.)

Tandem Housings (each):  
74,0 L (19.5 gal.)

Circle Gearbox:  
5,7 L (1.5 gal.)

Hydraulic Reservoir:  
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 5/8 in.) Cutting Edges, 17.5R25 L2 Tyres, and 79-kg (175 lb.)

### Operator:

Front: 4 540 kg (10,010 lb.)

Rear: 11 843 kg (26,110 lb.)

Total: 16 384 kg (36,120 lb.)

- Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment

Front: 5 869 kg (12,940 lb.)

Rear: 13 689 kg (30,179 lb.)

Total: 19 558 kg (43,119 lb.)

### Maximum Operating Weight:

24 948 kg (55,000 lb.)

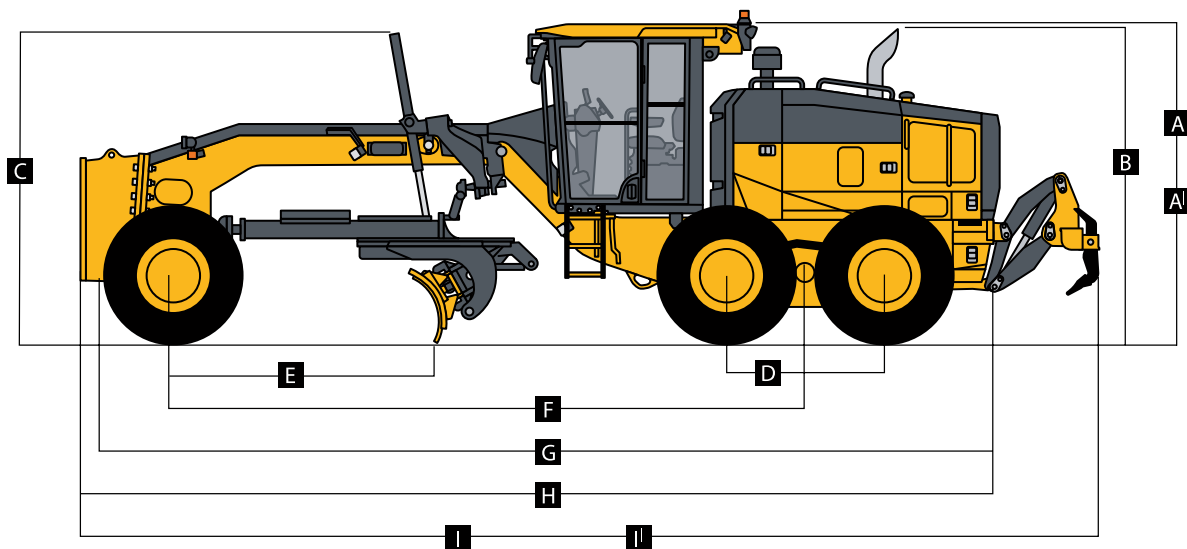
## MACHINE DIMENSIONS

<b>A</b>	Height to Top of Cab	3,18 m (10 ft. 5 in.)
<b>AI</b>	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.)
<b>C</b>	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	2,53 m (8 ft. 4 in.)

## continued...

<b>F</b>	Wheelbase	6,16 m (20 ft. 3 in.)
<b>G</b>	Overall Length	8,89 m (29 ft. 2 in.)
<b>H</b>	Overall Length with Scarifier	9,69 m (31 ft. 9 in.)
<b>I</b>	Overall Length with Push Block and Ripper	9,99 m (32 ft. 9 in.)
<b>I'</b>	Overall Length with Scarifier and Ripper	10,59 m (34 ft. 9 in.)

For Overall Width see Tyres/Wheels



## Option Weights

## 870G 4WD

<b>Moldboards with Through-Hardened Dura-Max Cutting Edge</b>	
3,66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware .....	-126 kg (-278 lb.)
3,96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware .....	-72 kg (-159 lb.)
4,27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware .....	0 kg (0 lb.)
4,27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 19 mm (3/4 in.) hardware.....	9,5 kg (21 lb.)
<b>Extensions, 610 mm (2 ft.) (right or left)</b>	
For Use with 610 mm (24 in.) Moldboards .....	120 kg (265 lb.)
For Use with 686 mm (27 in.) Moldboards.....	120 kg (265 lb.)
<b>Overlay End Bits, Reversible (one pair)</b>	
For 152 mm (6 in.) Cutting Edge.....	19,5 kg (43 lb.)
For 203 mm (8 in.) Cutting Edge.....	23 kg (51 lb.)
Heavy-Duty Dual-Input Circle-Drive Gearbox .....	14 kg (31 lb.)
Circle-Drive Slip Clutch.....	9 kg (20 lb.)
Moldboard Impact-Absorption System .....	43 kg (95 lb.)
Ripper/Scarifier, Rear Mounted with Hitch and Ripper Shanks (3).....	1 139 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.)
Push Block, Front .....	1 338 kg (2,950 lb.)
<b>Scarifier</b>	
Teeth (5).....	831 kg (1,833 lb.)
Mid-Mount with Teeth (11) .....	1 481 kg (3,265 lb.)
Front Lift Group (Balderson-style) .....	763 kg (1,682 lb.)
<b>Tyres</b>	
14.00-24, 12 PR G2.....	-272 kg (-600 lb.)
17.5-25, 12 PR G2/L2.....	-158 kg (-348 lb.)
14.00-R24, Radial, G2/L2 General Purpose .....	-52 kg (-114 lb.)
14.00-R24, Radial, G2/L2 Snow .....	-11 kg (-24 lb.)
17.5-R25, Radial, L2 General Purpose.....	0 kg (0 lb.)
17.5-R25, Radial, G2/L2 Snow .....	43,5 kg (96 lb.)
17.5-R25, Radial, G3/L3 General Purpose.....	90 kg (198 lb.)
550/65R25 XLD70 G3/L3 Radial, General Purpose.....	444 kg (978 lb.)
<b>Multi-Piece Rims</b>	
254 mm x 610 mm (10 in. x 24 in.).....	-87 kg (-192 lb.)
356 mm x 635 mm (14 in. x 25 in.).....	0 kg (0 lb.)
432 mm x 635 mm (17 in. x 25 in.).....	54,4 kg (120 lb.)
<b>Fenders</b>	
Front .....	77 kg (169 lb.)
Rear .....	141 kg (310 lb.)
Low Cab with Opening Front and Side Windows .....	14,5 kg (32 lb.)
Premium Air-Suspension, Heated Seat with Adjustable Arm- and Headrests .....	13 kg (28 lb.)
Coolant Heater .....	4 kg (9 lb.)
Quick Service .....	11 kg (24 lb.)
Sound-Absorption Package (machines equipped with Tier 3/Stage IIIA and Tier 2/Stage II engines only).....	14 kg (31 lb.)
Secondary Steering .....	26 kg (58 lb.)
Beacon Bracket .....	8 kg (18 lb.)
Fire Extinguisher .....	14,5 kg (32 lb.)
<b>Lighting Packages</b>	
10 Halogen Lights .....	4,5 kg (10 lb.)
16 Halogen Lights .....	7 kg (16 lb.)
18 Halogen Lights .....	8 kg (18 lb.)
High-Front Light Bar for Snowplowing.....	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls .....	7 kg (15 lb.)
Hydraulics for Front-Mounted Equipment.....	9 kg (19 lb.)



# 672G PLUS 6WD SPECIFICATIONS



## ENGINE

**Manufacturer and Model**  
John Deere PowerTech™ 9.0 L

**Non-Road Emission Standard**  
EPA Tier 2/EU Stage II

**Cylinders**  
6

**Displacement**  
9,0 L (548 cu. in.)

**Net Engine Power**

Gear 1	138 kW (185 hp)
Gear 2	149 kW (200 hp)
Gear 3	160 kW (215 hp)
Gear 4	168 kW (225 hp)
Gear 5	172 kW (230 hp)
Gear 6	179 kW (240 hp)
Gear 7	187 kW (250 hp)
Gear 8	179 kW (240 hp)*

**Net Peak Torque**  
1 248 Nm (920 lb.-ft.)

**Net Torque Rise**  
54%

**Aspiration**  
Turbocharged, charge-air cooled

**Lubrication**  
Full-flow spin-on filter and integral cooler

**Air Cleaner with Restriction Indicator**  
Dual element, dry

## COOLING

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

## POWERTRAIN

**6-Wheel Drive**  
Automatic dual-path hydrostatic drive; increases tractive effort and front-end control; includes separate left and right systems with variable-displacement pumps, axial-piston wheel motors, and freewheel at transport speeds; operator-selectable 15-position rotary aggressiveness control and inching capability down to 0 mph; precision mode (propelled by front wheels only)

**Effective Gears:**  
1-7 forward and reverse (9.0L engines) / 1-4 forward and reverse (6,8L engines)

**Precision Mode:**  
Effective Gears: 1-3 forward only

**Operating Speeds:**  
0,4 - 8,0 km/h (0.25-5.0 mph)

**Hydrostatic Pumps (2 each):**  
53 cm<sup>3</sup> (3.2 cu. in.)

**Wheel Motors:**  
57 cm<sup>3</sup> (3.5 cu. in.)

**Final Reduction:**  
38,7:1

## Transmission

Direct-drive John Deere PowerShift Plus™, modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; independent transmission reservoir with separate filtration and cooling system with 117-L/min. (31 gpm) gear pump

**Gears:**  
Forward 8  
Reverse 8

**Maximum Travel Speeds**  
No tyre slip at 2 180 rpm

Gear 1	4,0 km/h (2.5 mph)
Gear 2	5,6 km/h (3.5 mph)
Gear 3	7,7 km/h (4.8 mph)
Gear 4	10,9 km/h (6.8 mph)
Gear 5	16,4 km/h (10.2 mph)
Gear 6	23,2 km/h (14.4 mph)
Gear 7	32,3 km/h (20.1 mph)
Gear 8	45,5 km/h (28.3 mph)

**Front Axle**  
Heavy-duty welded fabrication

**Oscillation (total):**  
32 deg.

**Wheel Lean Angle (each direction):**  
20 deg.

**Differentials**  
Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic differential lock

**Steering (all models include steering wheel)**  
All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) option

**Turning Radius (front steer and articulation):**  
7,21 m (284 in.) (23 ft. 8 in.)

**Articulation (both right and left):**  
22 deg.

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

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

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

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

## HYDRAULICS

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

**Maximum Pump Flow:**  
212 L/min. (56 gpm)

**Maximum System Pressure:**  
18 961 kPa (2,750 psi)

**Pump Displacement:**  
90 cm<sup>3</sup> (5.5 cu. in.)

## BLADE FUNCTION

All-hydraulic, industry-standard lever placement of blade-function controls; includes float position; 7 discrete saddle positions

**Blade Range**  
Lift Above Ground:  
490 mm (19.3 in.)

**Blade Side Shift (right or left):**  
683 mm (26.9 in.)

**Pitch at Ground Line:**  
Forward 42 deg.  
Back 5 deg.

**Shoulder Reach Outside Wheels (frame straight, right or left):**  
2 083 mm (82.0 in.) (6 ft. 10 in.)

**Bank Cut Angle (right or left):**  
90 deg.

## BLADE PULL

**At Maximum Operating Weight:**  
22 453 kg (49,500 lb.)

## ELECTRICAL

Solid-state load center and sealed switch module

**Voltage:**  
24 volt

**Number of Batteries:**  
2

**Battery Capacity:**  
1 400 CCA

**Reserve Capacity:**  
440 min.

**Amp-Hour Rating:**  
224 amp-hour

**Alternator Rating:**  
Base: 100 amp  
Optional: 130 amp

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

## MAINFRAME

**Type**  
Welded box construction

**Width (minimum):**  
307 mm (12.1 in.)

**Height (minimum):**  
307 mm (12.1 in.)

**Thickness:**  
Side: 16 mm (0.63 in.)  
Top and Bottom Plate: 23 mm (0.89 in.)

**Modulus:**  
Minimum Vertical Section:  
1 445 cm<sup>3</sup> (88 cu. in.)

**Average Vertical Section at Saddle:**  
2 245 cm<sup>3</sup> (137 cu. in.)

## DRAFT FRAME (DRAWBAR)

Welded box construction machined for flatness with double ball-and-socket pivot connection equipped with quick-change replaceable wear inserts

## CIRCLE

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

**Circle Diameter:**  
1 524 mm (60 in.)

**Rotation:**  
360 deg.

**Drive:**  
Hydraulic motor and worm gear with positive lock

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

## MOLDBOARD

High-strength, pre-stressed for higher strength; wear-resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable wear inserts and quick-adjust jackscrew system

**Base Length:**  
4,27 m (168 in.) (14 ft.)

**Height (measured along arc, including cutting edge):**  
610 mm (24 in.)

**Thickness:**  
22 mm (0.88 in.)

## CUTTING EDGE

Dura-Max™ through-hardened steel edge

**Thickness:**  
16 mm (0.62 in.)

**Width:**  
152 mm (6 in.)

## SCARIFIERS (620G 4WD)

**Type**  
Front: V-type toolbar with manual 2-pitch positions and hydraulic float

Mid-Mount: Radial linkage, with NeverGrease™ pin joints; V-type manual 3-pitch positions and hydraulic float

**Width of Cut**

Front: 1,20 m (48 in.) (4 ft. 0 in.)

Mid-Mount: 1,19 m (46.7 in.) (3 ft. 11 in.)

**Number of Shanks/Teeth**

Front: 5 (maximum capacity 9)

Mid-Mount: 11

**Lift Above Ground**

Front: 589 mm (23.2 in.)

Mid-Mount: 335 mm (13.2 in.)

**Maximum Depth**

Front: 335 mm (13.2 in.)

Mid-Mount: 325 mm (12.8 in.)

**Shank: Spacing**

Front: 146 mm (5.75 in.)

Mid-Mount: 117 mm (54.6 in.)

**Shank: Size**

Front: 25 x 76 mm (1 x 3 in.)

Mid-Mount: 25 x 76 mm (1 x 3 in.)

**FRONT LIFT GROUP (BALDERSON-STYLE)**

Parallel linkage, mechanical pins, and hydraulic float

**Lift**

Above Ground (top of tube): 1 864 mm (73.4 in.)

Range: 988 mm (38.9 in.)

**REAR RIPPER/SCARIFIER**

Parallel linkage, with NeverGrease pin joints, hydraulic float, and integrated hitch

**Width of Cut**

Ripper: 2,21 m (87.2 in.) (7 ft. 3 in.)

Scarifier: 2,18 m (86 in.) (7 ft. 2 in.)

**Number of Shanks/Teeth**

Ripper: 3 (maximum capacity 5)

Scarifier: None standard (maximum capacity 9)

**Lift Above Ground**

Ripper: 602 mm (23.7 in.)

Scarifier: 810 mm (31.9 in.)

**Maximum Depth**

Ripper: 426 mm (16.8 in.)

Scarifier: 323 mm (12.7 in.)

**Force at Typical FT4 Weight Penetration**

Ripper: 9 712 kg (21,411 lb.)

**Pry-Out**

Ripper: 13 671 kg (30,139 lb.)

**Shank Size**

Ripper: 61,5 x 133 mm (2.42 x 5.25 in.)

Scarifier: 25 x 76 mm (1 x 3 in.)

**OPERATOR STATION**

Low-profile cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005)

**TYRES/WHEELS**

Standard: 17.5x25 L4

• Wheel Tread on Ground: 2,16 m (85.0 in.)

• Overall Width: 2,64 m (104.0 in.)

• Ground Clearance (front axle): 587 mm (23.1 in.)

**SERVICEABILITY**

Refill Capacities: 9,0L engine

Fuel Tank: 416,5 L (110 gal.)

Cooling System: 48,5 L (12.8 gal.)

Engine Oil with Filter: 28,0 L (7.4 gal.)

Transmission Fluid: 28,4 L (7.5 gal.)

Differential Housing: 38,0 L (10 gal.)

Tandem Housings (each): 74,0 L (19.5 gal.)

Circle Gearbox: 5,7 L (1.5 gal.)

Hydraulic Reservoir: 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 5/8 in.) Cutting Edges, 1414R24 L2 Tyres, and 79-kg (175lb.)

**Operator:**

Front: 4 826 kg (10,640 lb.)

Rear: 11 814 kg (26,045 lb.)

Total: 16 640 kg (36,685 lb.)

• Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment

Front: 5 970 kg (13,162 lb.)

Rear: 13 330 kg (29,388 lb.)

Total: 19 300 kg (42,550 lb.)

Maximum Operating Weight: 24 948 kg (55,000 lb.)

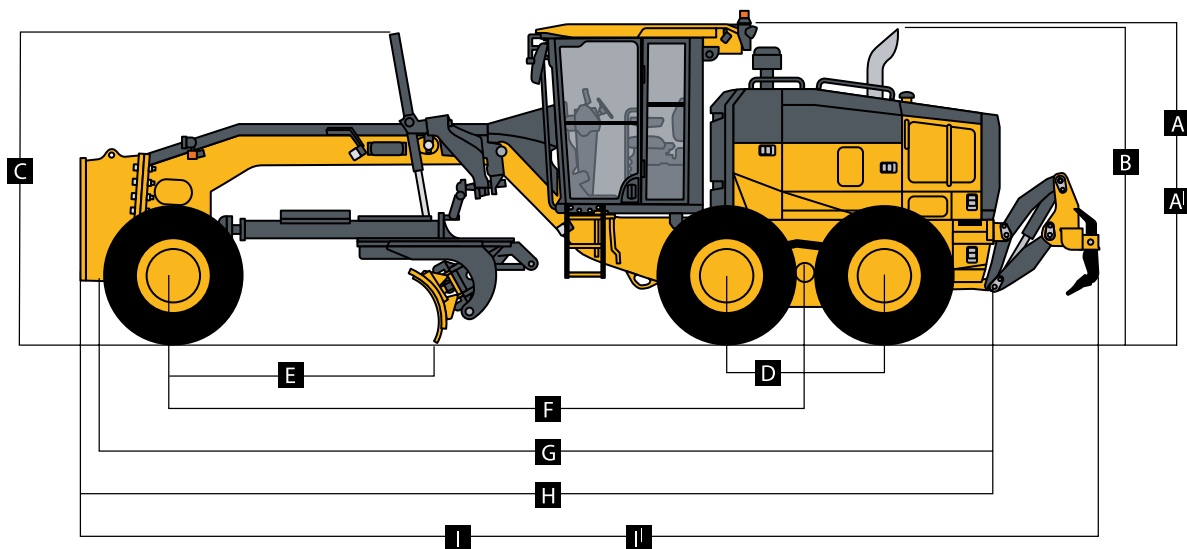
**MACHINE DIMENSIONS**

<b>A</b>	Height to Top of Cab	3,18 m (10 ft. 5 in.)
<b>AI</b>	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.)
<b>C</b>	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.)

**continued...**

<b>F</b>	Wheelbase	6,16 m (20 ft. 3 in.)
<b>G</b>	Overall Length	8,89 m (29 ft. 2 in.)
<b>H</b>	Overall Length with Scarifier	9,69 m (31 ft. 9 in.)
<b>I</b>	Overall Length with Push Block and Ripper	9,99 m (32 ft. 9 in.)
<b>I'</b>	Overall Length with Scarifier and Ripper	10,59 m (34 ft. 9 in.)

For Overall Width see Tyres/Wheels



**Option Weights** **672G 4WD**

<b>Moldboards with Through-Hardened Dura-Max Cutting Edge</b>	
3,66 m x 610 mm x 22 mm (12 ft. x 24 in. x 7/8 in.) with 152 mm x 16 mm (6 in. x 5/8 in.) cutting edge and 16 mm (5/8 in.) hardware	0 kg (0 lb.)
3,66 m x 610 mm x 22 mm (12 ft. x 24 in. x 7/8 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware	45 kg (99 lb.)
3,66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware	126 kg (277 lb.)
3,96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware	180 kg (396 lb.)
4,27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/8 in.) with 152 mm x 16 mm (6 in. x 5/8 in.) cutting edge and 16 mm (5/8 in.) hardware	105 kg (231 lb.)
4,27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/8 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware	157,4 kg (347 lb.)
4,27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware	251 kg (554 lb.)
4,27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 19 mm (3/4 in.) hardware	261 kg (575 lb.)
<b>Extensions, 610 mm (2 ft.) (right or left)</b>	
For Use with 610 mm (24 in.) Moldboards	116 kg (255 lb.)
For Use with 686 mm (27 in.) Moldboards	120 kg (265 lb.)
<b>Overlay End Bits, Reversible (one pair)</b>	
For 152 mm (6 in.) Cutting Edge	19,5 kg (43 lb.)
For 203 mm (8 in.) Cutting Edge	23 kg (51 lb.)
<b>Heavy-Duty Dual-Input Circle-Drive Gearbox</b>	
	14 kg (31 lb.)
<b>Circle-Drive Slip Clutch</b>	
	9 kg (20 lb.)
<b>Moldboard Impact-Absorption System</b>	
	43 kg (95 lb.)
<b>Ripper/Scarifier, Rear Mounted with Hitch and Ripper Shanks (3)</b>	
	1 139 kg (2,510 lb.)
<b>Scarifier Shanks with Teeth (9 for rear ripper/scarifier)</b>	
	68 kg (150 lb.)
<b>Ripper Shanks and Teeth (2)</b>	
	63 kg (139 lb.)
<b>Rear Counterweight with Integral Rear Hitch</b>	
	727 kg (1,603 lb.)
<b>Rear Hitch</b>	
	54,4 kg (120 lb.)
<b>Push Block, Front</b>	
	1 338 kg (2,950 lb.)
<b>Scarifier</b>	
<b>Front Mount with Teeth (5)</b>	
	831 kg (1,833 lb.)
<b>Mid-Mount with Teeth (11)</b>	
	1481 kg (3,265 lb.)
<b>Front Lift Group (Balderson-style)</b>	
	763 kg (1,682 lb.)
<b>Tyres</b>	
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.)
<b>Multi-Piece Rims</b>	
254 mm x 610 mm (10 in. x 24 in.)	0 kg (0 lb.)
356 mm x 635 mm (14 in. x 25 in.)	85,3 kg (188 lb.)
<b>Fenders</b>	
Front	77 kg (169 lb.)
Rear	141 kg (310 lb.)
<b>Low Cab with Opening Front and Side Windows</b>	
	14,5 kg (32 lb.)
<b>Premium Air-Suspension, Heated Seat with Adjustable Arm- and Headrests</b>	
	13 kg (28 lb.)
<b>Coolant Heater</b>	
	4 kg (9 lb.)
<b>Quick Service</b>	
	11 kg (24 lb.)
<b>Sound-Absorption Package (machines equipped with Tier 3/Stage IIIA and Tier 2/Stage II engines only)</b>	
	14 kg (31 lb.)
<b>Secondary Steering</b>	
	26 kg (58 lb.)
<b>Beacon Bracket</b>	
	8 kg (18 lb.)
<b>Fire Extinguisher</b>	
	14,5 kg (32 lb.)
<b>Lighting Packages</b>	
10 Halogen Lights	4,5 kg (10 lb.)
16 Halogen Lights	7 kg (16 lb.)
18 Halogen Lights	8 kg (18 lb.)
<b>High-Front Light Bar for Snowplowing</b>	
	20 kg (44 lb.)
<b>Auxiliary Hydraulic Control Valve Section and Controls</b>	
	7 kg (15 lb.)
<b>Hydraulics for Front-Mounted Equipment</b>	
	9 kg (19 lb.)



# 772G 6WD SPECIFICATIONS



## ENGINE

### Manufacturer and Model

John Deere PowerTech™ 9.0 L

### Non-Road Emission Standard

EPA Tier 2/EU Stage II

### Cylinders

6

### Displacement

9,0 L (548 cu. in.)

### Net Engine Power

Gear 1	153 kW (205 hp)
Gear 2	164 kW (220 hp)
Gear 3	175 kW (235 hp)
Gear 4	183 kW (245 hp)
Gear 5	187 kW (250 hp)
Gear 6	194 kW (260 hp)
Gear 7	201 kW (270 hp)
Gear 8	194 kW (260 hp)*

### Net Peak Torque

1 300 Nm (959 lb.-ft.)

### Net Torque Rise

57%

### Aspiration

Turbocharged, charge-air cooled

### Lubrication

Full-flow spin-on filter and integral cooler

### Air Cleaner with Restriction Indicator

Dual element, dry  
\*6WD not available

## COOLING

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

## POWERTRAIN

### 6-Wheel Drive

Automatic dual-path hydrostatic drive; increases tractive effort and front-end control; includes separate left and right systems with variable-displacement pumps, axial-piston wheel motors, and freewheel at transport speeds; operator-selectable 15-position rotary aggressiveness control and inching capability down to 0 mph; precision mode (propelled by front wheels only)

### Effective Gears

1-7 forward and reverse

### Precision Mode

Effective Gears: 1-3 forward only

### Operating Speeds:

0,4 - 8,0 km/h (0.25-5.0 mph)

### Hydrostatic Pumps (2 each)

60 cm<sup>3</sup> (3.7 cu. in.)

### Wheel Motors

60 cm<sup>3</sup> (3.7 cu. in.)

### Final Reduction

38,7:1

## Transmission

Direct-drive John Deere PowerShift Plus™, modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; independent transmission reservoir with separate filtration and cooling system with 117-L/min. (31 gpm) gear pump

### Gears

Forward 8  
Reverse 8

### Maximum Travel Speeds

No tyre slip at 2 180 rpm, 14.0-R24 tyres

Gear 1	4,0 km/h (2.5 mph)
Gear 2	5,6 km/h (3.5 mph)
Gear 3	7,7 km/h (4.8 mph)
Gear 4	10,9 km/h (6.8 mph)
Gear 5	16,4 km/h (10.2 mph)
Gear 6	23,2 km/h (14.4 mph)
Gear 7	32,3 km/h (20.1 mph)
Gear 8	45,5 km/h (28.3 mph)

### Front Axle

Heavy-duty welded fabrication

### Oscillation (total)

32 deg.

### Wheel Lean Angle (each direction)

20 deg.

### Differentials

Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic differential lock

### Steering (all models include steering wheel)

All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) option

### Turning Radius (front steer and articulation):

7,21 m (284 in.) (23 ft. 8 in.)

### Articulation (both right and left):

22 deg.

### Final Drives

Inboard-mounted planetary sealed in cooled, filtered oil

### Brakes

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

### Primary and Secondary Brakes

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

### Parking Brake

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

## HYDRAULICS

### Type

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

### Maximum Pump Flow

212 L/min. (56 gpm)

### Maximum System Pressure

18 961 kPa (2,750 psi)

### Pump Displacement

90 cm<sup>3</sup> (5.5 cu. in.)

## BLADE FUNCTION

All-hydraulic, industry-standard lever placement of blade-function controls; includes float position; 7 discrete saddle positions

### Blade Range

Lift Above Ground:  
490 mm (19.3 in.)

Blade Side Shift (right or left):  
683 mm (26.9 in.)

### Pitch at Ground Line:

Forward 42 deg.  
Back 5 deg.

### Shoulder Reach Outside Wheels

(frame straight, right or left):  
2 083 mm (82.0 in.) (6 ft. 10 in.)

Bank Cut Angle (right or left):  
90 deg.

## BLADE PULL

At Maximum Operating Weight:  
22 453 kg (49,500 lb.)

## ELECTRICAL

Solid-state load center and sealed switch module

### Voltage:

24 volt

### Number of Batteries:

2

### Battery Capacity:

1 400 CCA

### Reserve Capacity:

440 min.

### Amp-Hour Rating:

224 amp-hour

### Alternator Rating:

Base: 100 amp  
Optional: 130 amp

### Lights

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

## MAINFRAME

### Type

Welded box construction

### Width (minimum):

307 mm (12.1 in.)

Height (minimum):  
307 mm (12.1 in.)

### Thickness:

Side: 16 mm (0.63 in.)  
Top and Bottom Plate: 23 mm (0.89 in.)

### Modulus:

Minimum Vertical Section:  
1 770 cm<sup>3</sup> (108 cu. in.)

Average Vertical Section at Saddle:  
2 245 cm<sup>3</sup> (137 cu. in.)

## DRAFT FRAME (DRAWBAR)

Welded box construction machined for flatness with double ball-and-socket pivot connection equipped with quick-change replaceable wear inserts

## CIRCLE

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

### Circle Diameter:

1 524 mm (60 in.)

### Rotation:

360 deg.

### Drive:

Hydraulic motor and worm gear with positive lock

### Circle Side Shift (right and left):

787 mm (31 in.)

## MOLDBOARD

High-strength, pre-stressed for higher strength; wear-resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable wear inserts and quick-adjust jackscrew system

### Base Length:

4,27 m (168 in.) (14 ft.)

### Height (measured along arc, including cutting edge):

686 mm (27 in.)

### Thickness:

25 mm (1 in.)

## CUTTING EDGE

Dura-Max™ through-hardened steel edge

### Thickness:

16 mm (0.62 in.)

### Width:

152 mm (6 in.)

## SCARIFIERS (620G 4WD)

### Type

Front: V-type toolbar with manual 2-pitch positions and hydraulic float.

Mid-Mount: Radial linkage, with NeverGrease™ pin joints; V-type manual 3-pitch positions and hydraulic float

### Width of Cut

Front: 1,20 m (48 in.) (4 ft. 0 in.)

Mid-Mount: 1,19 m (46.7 in.) (3 ft. 11 in.)

### Number of Shanks/Teeth

Front: 5 (maximum capacity 9)

Mid-Mount: 11

### Lift Above Ground

Front: 589 mm (23.2 in.)

Mid-Mount: 335 mm (13.2 in.)

### Maximum Depth

Front: 335 mm (13.2 in.)

Mid-Mount: 325 mm (12.8 in.)

### Shank: Spacing

Front: 146 mm (5.75 in.)

Mid-Mount: 117 mm (54.6 in.)

### Shank: Size

Front: 25 x 76 mm (1 x 3 in.)

Mid-Mount: 25 x 76 mm (1 x 3 in.)

### FRONT LIFT GROUP (BALDERSON-STYLE)

Parallel linkage, mechanical pins, and hydraulic float

### Lift

Above Ground (top of tube):  
1 864 mm (73.4 in.)

### Range:

988 mm (38.9 in.)

### REAR RIPPER/SCARIFIER

Parallel linkage, with NeverGrease pin joints, hydraulic float, and integrated hitch

### Width of Cut

Ripper: 2,21 m (87.2 in.) (7 ft. 3 in.)

Scarifier: 2,18 m (86 in.) (7 ft. 2 in.)

### Number of Shanks/Teeth

Ripper: 3 (maximum capacity 5)

Scarifier: None standard (maximum capacity 9)

### Lift Above Ground

Ripper: 602 mm (23.7 in.)

Scarifier: 810 mm (31.9 in.)

### Maximum Depth

Ripper: 426 mm (16.8 in.)

Scarifier: 323 mm (12.7 in.)

### Force at Typical FT4 Weight: Penetration

Ripper: 9 781 kg (21,564 lb.)

### Pry-Out

Ripper: 13 991 kg (30,845 lb.)

### Shank Size

Ripper: 61,5 x 133 mm (2.42 x 5.25 in.)

Scarifier: 25 x 76 mm (1 x 3 in.)

### OPERATOR STATION

Low-profile cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005)

### TYRES/WHEELS

Standard:  
17.5x25 L4

• Wheel Tread on Ground:  
2,16 m (85.0 in.)

• Overall Width:  
2,64 m (104.0 in.)

• Ground Clearance (front axle):  
587 mm (23.1 in.)

### SERVICEABILITY

#### Refill Capacities:

Fuel Tank:  
416,5 L (110 gal.)

Cooling System:  
48,5 L (12.8 gal.)

Engine Oil with Filter:  
27,0 L (7.1 gal.)

Transmission Fluid:  
28,4 L (7.5 gal.)

Differential Housing:  
38,0 L (10 gal.)

Tandem Housings (each):  
74,0 L (19.5 gal.)

Circle Gearbox:  
5,7 L (1.5 gal.)

Hydraulic Reservoir:  
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 5/8 in.) Cutting Edges, 14R24 L2 Tyres, and 79-kg (175 lb.)

#### Operator:

Front: 4 930 kg (10,869 lb.)  
Rear: 11 937 kg (26,317 lb.)  
Total: 16 867 kg (37,185 lb.)

• Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment

Front: 6 177 kg (13,618 lb.)  
Rear: 13 427 kg (29,602 lb.)  
Total: 19 604 kg (43,220 lb.)

Maximum Operating Weight:  
24 948 kg (55,000 lb.)

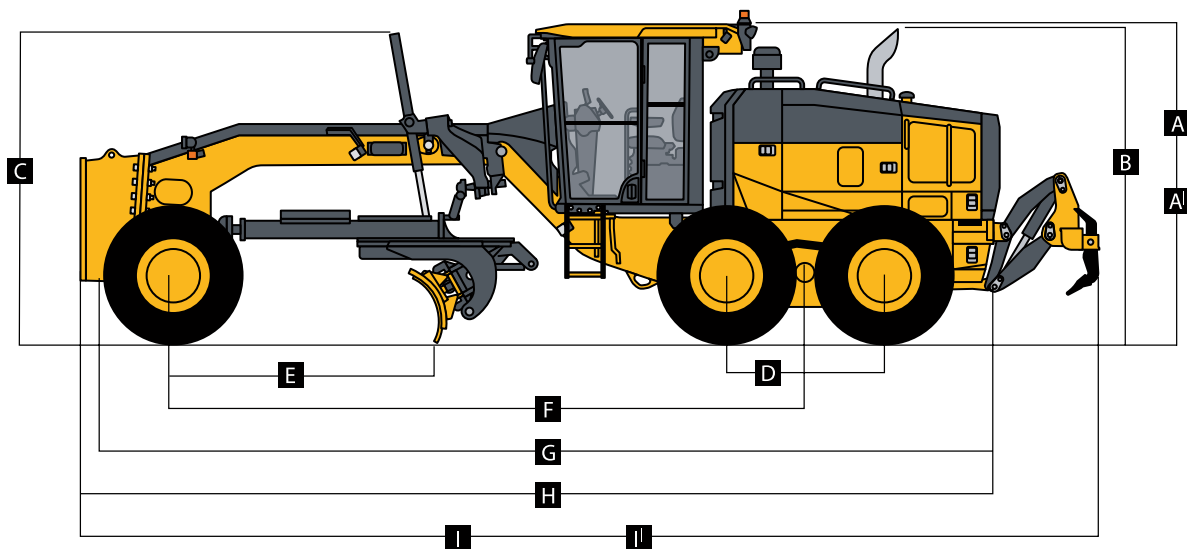
### MACHINE DIMENSIONS

<b>A</b>	Height to Top of Cab	3,18 m (10 ft. 5 in.)
<b>AI</b>	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.)
<b>C</b>	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.)

### continued...

<b>F</b>	Wheelbase	6,16 m (20 ft. 3 in.)
<b>G</b>	Overall Length	8,89 m (29 ft. 2 in.)
<b>H</b>	Overall Length with Scarifier	9,69 m (31 ft. 9 in.)
<b>I</b>	Overall Length with Push Block and Ripper	9,99 m (32 ft. 9 in.)
<b>I'</b>	Overall Length with Scarifier and Ripper	10,59 m (34 ft. 9 in.)

For Overall Width see Tyres/Wheels





## Option Weights

772G 4WD

<b>Moldboards with Through-Hardened Dura-Max Cutting Edge</b>	
3,66 m x 610 mm x 22 mm (12 ft. x 24 in. x 7/8 in.) with 152 mm x 16 mm (6 in. x 5/8 in.) cutting edge and 16 mm (5/8 in.) hardware.....	0 kg (0 lb.)
3,66 m x 610 mm x 22 mm (12 ft. x 24 in. x 7/8 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware.....	45 kg (99 lb.)
3,66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware .....	126 kg (277 lb.)
3,96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware .....	180 kg (396 lb.)
4,27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/8 in.) with 152 mm x 16 mm (6 in. x 5/8 in.) cutting edge and 16 mm (5/8 in.) hardware.....	105 kg (231 lb.)
4,27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/8 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware.....	157,4 kg (347 lb.)
4,27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware .....	251 kg (554 lb.)
4,27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 19 mm (3/4 in.) hardware .....	261 kg (575 lb.)
<b>Extensions, 610 mm (2 ft.) (right or left)</b>	
For Use with 610 mm (24 in.) Moldboards.....	116 kg (255 lb.)
For Use with 686 mm (27 in.) Moldboards.....	120 kg (265 lb.)
<b>Overlay End Bits, Reversible (one pair)</b>	
For 152 mm (6 in.) Cutting Edge.....	19,5 kg (43 lb.)
For 203 mm (8 in.) Cutting Edge.....	23 kg (51 lb.)
Heavy-Duty Dual-Input Circle-Drive Gearbox.....	14 kg (31 lb.)
Circle-Drive Slip Clutch .....	9 kg (20 lb.)
Moldboard Impact-Absorption System.....	43 kg (95 lb.)
Ripper/Scarifier, Rear Mounted with Hitch and Ripper Shanks (3).....	1 139 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.)
Push Block, Front.....	1 338 kg (2,950lb.)
<b>Scarifier</b>	
Front Mount with Teeth (5) .....	831 kg (1,833 lb.)
Mid-Mount with Teeth (11).....	1 481 kg (3,265 lb.)
Front Lift Group (Balderson-style).....	763 kg (1,682 lb.)
<b>Tyres</b>	
14.00-24, 12 PR G2 .....	-220,4 kg (-486lb.)
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.)
<b>Multi-Piece Rims</b>	
254 mm x 610 mm (10 in. x 24 in.) .....	0 kg (0 lb.)
356 mm x 635 mm (14 in. x 25 in.).....	85,3 kg (188 lb.)
432 mm x 635 mm (17 in. x 25 in.).....	131,6 kg (290 lb.)
<b>Fenders</b>	
Front.....	77 kg (169 lb.)
Rear .....	141 kg (310 lb.)
Low Cab with Opening Front and Side Windows .....	14,5 kg (32 lb.)
Premium Air-Suspension, Heated Seat with Adjustable Arm- and Headrests .....	13 kg (28 lb.)
Coolant Heater .....	4 kg (9 lb.)
Quick Service .....	11 kg (24 lb.)
Sound-Absorption Package (machines equipped with Tier 3/Stage IIIA and Tier 2/Stage II engines only).....	14 kg (31 lb.)
Secondary Steering .....	26 kg (58 lb.)
Beacon Bracket .....	8 kg (18 lb.)
Fire Extinguisher.....	14,5 kg (32 lb.)
<b>Lighting Packages</b>	
10 Halogen Lights .....	4,5 kg (10 lb.)
16 Halogen Lights.....	7 kg (16 lb.)
18 Halogen Lights .....	8 kg (18 lb.)
High-Front Light Bar for Snowplowing.....	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls.....	7 kg (15 lb.)
Hydraulics for Front-Mounted Equipment.....	9 kg (19 lb.)



# 872G 6WD SPECIFICATIONS



## ENGINE

**Manufacturer and Model**  
John Deere PowerTech™ 9.0 L

**Non-Road Emission Standard**  
EPA Tier 2/EU Stage II

**Cylinders**  
6

**Displacement**  
9,0 L (548 cu. in.)

**Net Engine Power**

Gear 1	168 kW (225 hp)
Gear 2	179 kW (240 hp)
Gear 3	190 kW (255 hp)
Gear 4	198 kW (265 hp)
Gear 5	201 kW (280 hp)
Gear 6	209 kW (280 hp)
Gear 7	209 kW (280 hp)
Gear 8	209 kW (280 hp)*

**Net Peak Torque**  
1 329 Nm (980 lb.-ft.)

**Net Torque Rise**  
48%

**Aspiration**  
Turbocharged, charge-air cooled

**Lubrication**  
Full-flow spin-on filter and integral cooler

**Air Cleaner with Restriction Indicator**  
Dual element, dry

\*6WD not available

## COOLING

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

## POWERTRAIN

**6-Wheel Drive**  
Automatic dual-path hydrostatic drive; increases tractive effort and front-end control; includes separate left and right systems with variable-displacement pumps, axial-piston wheel motors, and freewheel at transport speeds; operator-selectable 15-position rotary aggressiveness control and inching capability down to 0 mph; precision mode (propelled by front wheels only)

**Effective Gears**  
1-7 forward and reverse

**Precision Mode**  
Effective Gears: 1-3 forward only

**Operating Speeds:**  
0,4 - 8,0 km/h (0.25-5.0 mph)

**Hydrostatic Pumps (2 each)**  
60 cm<sup>3</sup> (3.7 cu. in.)

**Wheel Motors**  
60 cm<sup>3</sup> (3.7 cu. in.)

**Final Reduction**  
38,7:1

## Transmission

Direct-drive John Deere PowerShift Plus™, modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; independent transmission reservoir with separate filtration and cooling system with 121-L/min. (32 gpm) gear pump

**Gears**  
Forward 8  
Reverse 8

**Maximum Travel Speeds**  
No tyre slip at 2 180 rpm

Gear 1	3,9 km/h (2.4 mph)
Gear 2	5,6 km/h (3.5 mph)
Gear 3	7,9 km/h (4.9 mph)
Gear 4	10,9 km/h (6.8 mph)
Gear 5	16,7 km/h (10.4 mph)
Gear 6	23,3 km/h (14.5 mph)
Gear 7	32,2 km/h (20.0 mph)
Gear 8	45,0 km/h (28.0 mph)

**Front Axle**  
Heavy-duty welded fabrication

**Oscillation (total)**  
32 deg.

**Wheel Lean Angle (each direction)**  
20 deg.

**Differentials**  
Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic differential lock

**Steering (all models include steering wheel)**  
All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro (GP) option

**Turning Radius (front steer and articulation)**  
7,21 m (284 in.) (23 ft. 8 in.)

**Articulation (both right and left)**  
22 deg.

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

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

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

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

## HYDRAULICS

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

**Maximum Pump Flow**  
218 L/min. (57.5 gpm)

**Maximum System Pressure**  
18 961 kPa (2,750 psi)

**Pump Displacement**  
90 cm<sup>3</sup> (5.5 cu. in.)

## BLADE FUNCTION

All-hydraulic, industry-standard lever placement of blade-function controls; includes float position; 7 discrete saddle positions

**Blade Range**  
Lift Above Ground:  
452 mm (17.8 in.)

**Blade Side Shift (right or left):**  
683 mm (26.9 in.)

**Pitch at Ground Line:**  
Forward 42 deg.  
Back 5 deg.

**Shoulder Reach Outside Wheels (frame straight, right or left):**  
2 329 mm (91.7 in.) (7 ft. 8 in.)

**Bank Cut Angle (right or left):**  
90 deg.

## BLADE PULL

At Maximum Operating Weight:  
22 453 kg (49,500 lb.)

## ELECTRICAL

Solid-state load center and sealed switch module

**Voltage**  
24 volt

**Number of Batteries**  
2

**Battery Capacity**  
1 400 CCA

**Reserve Capacity**  
440 min.

**Amp-Hour Rating**  
224 amp-hour

**Alternator Rating**  
Base: 100 amp  
Optional: 130 amp

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

## MAINFRAME

**Type**  
Welded box construction

**Width (minimum):**  
307 mm (12.1 in.)

**Height (minimum):**  
307 mm (12.1 in.)

**Thickness:**  
Side: 16 mm (0.63 in.)  
Top and Bottom Plate: 30 mm (1.17 in.)

**Modulus:**  
Minimum Vertical Section:  
1 770 cm<sup>3</sup> (108 cu. in.)

**Average Vertical Section at Saddle:**  
2 635 cm<sup>3</sup> (161 cu. in.)

## DRAFT FRAME (DRAWBAR)

Welded box construction machined for flatness with double ball-and-socket pivot connection equipped with quick-change replaceable wear inserts

## CIRCLE

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

**Circle Diameter:**  
1 524 mm (60 in.)

**Rotation:**  
360 deg.

**Drive:**  
Hydraulic motor and worm gear with positive lock

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

## MOLDBOARD

High-strength, pre-stressed for higher strength, wear-resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable wear inserts and quick-adjust jackscrew system

**Base Length:**  
4,88 m (16 ft.)

**Height (measured along arc, including cutting edge):**  
686 mm (27 in.)

**Thickness:**  
25 mm (1 in.)

## CUTTING EDGE

Dura-Max™ through-hardened steel edge

**Thickness:**  
19 mm (0.75 in.)

**Width:**  
203 mm (8 in.)

## SCARIFIERS

**Type**  
Front: V-type toolbar with manual 2-pitch positions and hydraulic float.

**Mid-Mount:** Radial linkage, with NeverGrease™ pin joints

**Width of Cut**  
Front: 1,20 m (48 in.) (4 ft. 0 in.)

Mid-Mount: 1,19 m (46.7 in.) (3 ft. 11 in.)

**Number of Shanks/Teeth**  
Front: 5 (maximum capacity 9)

Mid-Mount: 11

**Lift Above Ground**  
Front: 589 mm (23.2 in.)

Mid-Mount: 335 mm (13.2 in.)

**Maximum Depth**  
Front: 335 mm (13.2 in.)

Mid-Mount: 325 mm (12.8 in.)

**Shank: Spacing**  
Front: 146 mm (5.75 in.)

Mid-Mount: 117 mm (54.6 in.)

**Shank: Size**  
Front: 25 x 76 mm (1 x 3 in.)

Mid-Mount: 25 x 76 mm (1 x 3 in.)

### FRONT LIFT GROUP (BALDERSON-STYLE)

Parallel linkage, mechanical pins, and hydraulic float

**Lift**  
Above Ground (top of tube):  
1 864 mm (73.4 in.)

Range:  
988 mm (38.9 in.)

**REAR RIPPER/SCARIFIER**  
Parallel linkage, with NeverGrease pin joints, hydraulic float, and integrated hitch

**Width of Cut**  
Ripper: 2,21 m (87.2 in.) (7 ft. 3 in.)  
Scarifier: 2,18 m (86 in.) (7 ft. 2 in.)

**Number of Shanks/Teeth**  
Ripper: 3 (maximum capacity 5)

Scarifier: None standard (maximum capacity 9)

**Lift Above Ground**  
Ripper: 602 mm (23.7 in.)

Scarifier: 810 mm (31.9 in.)

**Maximum Depth**  
Ripper: 426 mm (16.8 in.)

Scarifier: 323 mm (12.7 in.)

**Force at Typical FT4 Weight: Penetration**  
Ripper: 10 328 kg (22,770 lb.)

**Pry-Out**  
Ripper: 14 404 kg (31,756 lb.)

**Shank Size**  
Ripper: 61,5 x 133 mm (2.42 x 5.25 in.)

Scarifier: 25 x 76 mm (1 x 3 in.)

**OPERATOR STATION**  
Low-profile cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005)

**TYRES/WHEELS**  
**Standard:**  
17.5x25 L4  
• Wheel Tread on Ground:  
2,16 m (85.0 in.)  
• Overall Width:  
2,64 m (104.0 in.)  
• Ground Clearance (front axle):  
587 mm (23.1 in.)

**SERVICEABILITY**  
**Refill Capacities**  
Fuel Tank:  
416,5 L (110 gal.)  
Cooling System:  
48,5 L (12.8 gal.)  
Engine Oil with Filter:  
27,0 L (7.1 gal.)  
Transmission Fluid:  
28,4 L (7.5 gal.)  
Differential Housing:  
38,0 L (10 gal.)  
Tandem Housings (each):  
74,0 L (19.5 gal.)

Circle Gearbox:  
5,7 L (1.5 gal.)  
Hydraulic Reservoir:  
53,0 L (14 gal.)

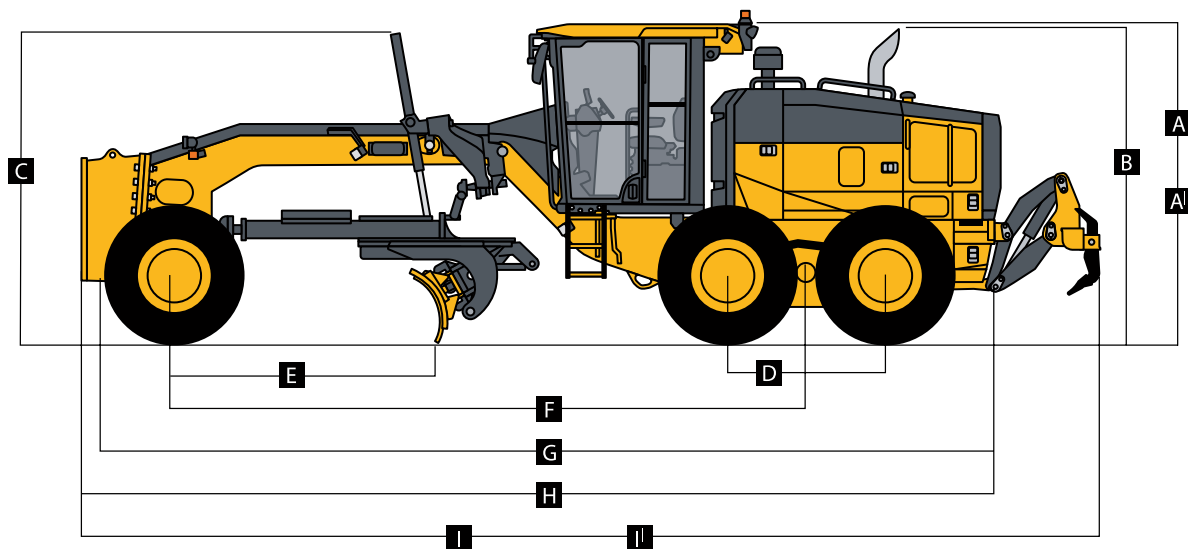
**OPERATING WEIGHTS**  
• With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x 3/4 in.) Cutting Edges, 17.5R25 L2 Tyres, and 79-kg (175 lb.)  
**Operator:**  
Front: 5 103 kg (111,250 lb.)  
Rear: 12 242 kg (26,990 lb.)  
Total: 17 345 kg (38,240 lb.)

• Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment  
Front: 6 407 kg (14,124 lb.)  
Rear: 14 036 kg (30,944 lb.)  
Total: 20 443 kg (45,068 lb.)  
Maximum Operating Weight:  
24 948 kg (55,000 lb.)

MACHINE DIMENSIONS		
<b>A</b>	Height to Top of Cab	3,18 m (10 ft. 5 in.)
<b>AI</b>	Height to Top of Full-Height Cab	3,40 m (11 ft. 2 in.)
<b>B</b>	Height to Top of Exhaust	3,13 m (10 ft. 3 in.)
<b>C</b>	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	2,53 m (8 ft. 4 in.)

continued...		
<b>F</b>	Wheelbase	6,16 m (20 ft. 3 in.)
<b>G</b>	Overall Length	8,89 m (29 ft. 2 in.)
<b>H</b>	Overall Length with Scarifier	9,69 m (31 ft. 9 in.)
<b>I</b>	Overall Length with Push Block and Ripper	9,99 m (32 ft. 9 in.)
<b>I'</b>	Overall Length with Scarifier and Ripper	10,59 m (34 ft. 9 in.)

*For Overall Width see Tyres/Wheels*



## Option Weights

872G 4WD

### Moldboards with Through-Hardened Dura-Max Cutting Edge

3,66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware	- 126 kg (- 278 lb.)
3,96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware	- 72 kg (- 159 lb.)
4,27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 16 mm (5/8 in.) hardware	0 kg (0 lb.)
4,27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 19 mm (3/4 in.) hardware	9,5 kg (21 lb.)
4,88 m x 686 mm x 25 mm (16 ft. x 27 in. x 1 in.) with 203 mm x 19 mm (8 in. x 3/4 in.) cutting edge and 19 mm (3/4 in.) hardware	137 kg (302 lb.)

### Extensions, 610 mm (2 ft.) (right or left)

For Use with 686 mm (27 in.) Moldboards	120 kg (265 lb.)
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### 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

Circle-Drive Slip Clutch	14 kg (31 lb.)
Moldboard Impact-Absorption System	9 kg (20 lb.)
Ripper/Scarifier, Rear Mounted with Hitch and Ripper Shanks (3)	43 kg (95 lb.)
Scarifier Shanks with Teeth (9 for rear ripper/scarifier)	1 139 kg (2,510 lb.)
Ripper Shanks and Teeth (2)	68 kg (150 lb.)
Rear Counterweight with Integral Rear Hitch	63 kg (139 lb.)
Rear Hitch	727 kg (1,603 lb.)
Push Block, Front	54,4 kg (120 lb.)
	1 338 kg (2,950 lb.)

### Scarifier

Front Mount with Teeth (5)	831 kg (1,833 lb.)
Mid-Mount with Teeth (11)	1 481 kg (3,265 lb.)

### Front Lift Group (Balderson-style)

	763 kg (1,682 lb.)
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### Tyres

14.00-24, 12 PR G2	-272 kg (-600 lb.)
17.5-25, 12 PR G2/L2	-158 kg (-348 lb.)
14.00-R24, Radial, G2/L2 General Purpose	-52 kg (-114 lb.)
14.00-R24, Radial, G2/L2 Snow	-11 kg (-24 lb.)
17.5-R25, Radial, L2 General Purpose	0 kg (0 lb.)
17.5-R25, Radial, G2/L2 Snow	43,5 kg (96 lb.)
17.5-R25, Radial, G3/L3 General Purpose	90 kg (198 lb.)
550/65R25 XLD70 G3/L3 Radial, General Purpose	444 kg (978 lb.)

### Multi-Piece Rims

254 mm x 610 mm (10 in. x 24 in.)	- 85 kg (- 188 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.)	46 kg (102 lb.)

### Fenders

Front	77 kg (169 lb.)
Rear	141 kg (310 lb.)

### Cab, Low with Opening Front and Side Windows

Premium Air-Suspension, Heated Seat with Adjustable Arm- and Headrests	14,5 kg (32 lb.)
Coolant Heater	13 kg (28 lb.)
Quick Service	4 kg (9 lb.)
Sound-Absorption Package (machines equipped with Tier 3/Stage IIIA and Tier 2/Stage II engines only)	11 kg (24 lb.)
Secondary Steering	14 kg (31 lb.)
Beacon Bracket	26 kg (58 lb.)
Fire Extinguisher	8 kg (18 lb.)
	14,5 kg (32 lb.)

### Lighting Packages

10 Halogen Lights	4,5 kg (10 lb.)
16 Halogen Lights	7 kg (16 lb.)
18 Halogen Lights	8 kg (18 lb.)

### High-Front Light Bar for Snowplowing

Auxiliary Hydraulic Control Valve Section and Controls	20 kg (44 lb.)
Hydraulics for Front-Mounted Equipment	7 kg (15 lb.)
	9 kg (19 lb.)

620G	670G	770G	870G		620G	670G	770G	870G	
<b>OPERATOR'S STATION</b>					<b>MOLDBOARD (continued)</b>				
●	●	●	●	Low-profile ROPS/FOPS cab with HVAC (ROPS ISO 3471 / FOPS SAE 3449 Level II)	▲	▲	▲		610 mm (24 in.) left- or right-hand extensions for 610 mm (24 in.) moldboard
▲	▲	▲	▲	Low-profile ROPS/FOPS cab utilizing laminated glass with fixed lower front and side opening windows			▲	▲	610 mm (24 in.) left- or right-hand extensions for 686 mm (27 in.) moldboard
▲	●			Opening front and side windows (standard with Grade Pro)	●	●	●	●	Reversible overlay endbits
●	●	●	●	Keyless start with multiple security modes	<b>OVERALL VEHICLE</b>				
●	●	●	●	Fabric air-suspension seat with armrests and headrest	▲	▲	▲	▲	JDLINK™ wireless communication system (available in specific countries; see your dealer for details)
▲	▲	▲	▲	Premium heated, leather/fabric, high-wide-back, air-suspension seat with armrests (standard with Grade Pro)	●	●	●	●	Ground-level fuel and diesel exhaust fluid (DEF) filling
●	●	●	●	Sealed-switch module with function indicators	▲	●	●	●	Fluid-sampling ports for engine oil and coolant, hydraulic oil, and axle and transmission fluids
●	●	●	●	Electric rear-window defroster	▲	▲	▲	▲	Low-profile ROPS/FOPS cab utilizing laminated glass
●	●	●	●	Upper front windshield washers with intermittent wipers	●	●	●	●	Vandal-protection locking for: Cab doors / Top tank radiator-access door / Engine coolant surge tank / Hydraulic reservoir cap / Battery-disconnect switch / Ground-level electrical master disconnect switch / Fuel-tank door and cap / Toolbox
▲	●	●	●	Upper rear windshield washers with intermittent wipers	●	●	●	●	Environmental drains with hoses for engine, transmission, hydraulic, differential fluids, and engine coolant
▲	▲	▲	▲	Lower front intermittent wiper and washer	●	●	●	●	Hydraulically driven cool-on-demand reversing fan
▲	▲	▲	▲	Powered cab precleaner	●	●	●	●	Banked easy-access vertical spin-on filters for hydraulic, transmission, and axle fluids
▲	▲	▲	▲	Decelerator pedal	●	●	●	●	Engine rotary ejector precleaner
●	●	●	●	Flip-down, right- and/or left-hand cab beacon with bracket	●	●	●	●	Automatic differential lock
●	●	●	●	Cab prewired for beacon, radio, and auxiliary circuit	●	●	●	●	Engine-stall prevention and auto shutdown
●	●	●	●	Front window sun visor / retractable rear sunshade	▲	▲	▲	▲	Single-input circle drive
●	●	●	●	Rearview mirrors, exterior (2) (SAE J985)	●	●	●	●	Single-input circle drive with slip clutch
▲	▲	▲	▲	Heated exterior mirrors (2) (SAE J985)	▲	▲	▲	▲	Heavy-duty dual-input circle drive without slip clutch
▲	▲	▲	▲	Fire extinguisher	▲	▲	▲	▲	Heavy-duty dual-input circle drive with slip clutch
▲	▲	▲	▲	High-resolution rearview camera with dedicated monitor	▲	▲	▲	▲	AutoShift transmission
●	●	●	●	Retractable seat belt, 76 mm (3 in.) (SAE 386)	▲	▲	▲	▲	Blade-impact-absorption system
▲	▲	▲	▲	AM/FM radio with auxiliary and Weather Band (WB)	▲	▲	▲	▲	Front and/or rear wheel fenders
▲	▲	▲	▲	AM/FM radio with Bluetooth®, auxiliary, and WB	▲	▲	▲	▲	Quick-service bank for transmission, hydraulic, engine oil, and engine coolant fluid changes
●	●	●	●	Push-button-activated cruise control	▲	▲	▲	▲	Secondary steering
<b>ELECTRICAL</b>					▲	▲	▲	▲	Sound-absorption package (Tier 3/Stage IIIA and Tier 2/Stage II)
▲	▲	▲	▲	100-amp alternator	<b>FRONT ATTACHMENTS</b>				
●	●	●	●	130-amp alternator	●	●	●	●	Front push block
●	●	●	●	Batteries (2), 950 CCA with 190-min. reserve capacity	▲	▲	▲	▲	V-type front scarifier with float position, 5 shanks
▲	●	●	●	Batteries (2), 1 400 CCA with 440-min. reserve capacity	▲	▲	▲	▲	Mid-mount scarifier with float position, 11 shanks
▲	●	●	●	Left-hand engine compartment service-check light	▲	▲	▲	▲	Front Balderson-style lift group with float position
▲	▲	▲	▲	Right-hand engine compartment service-check light	▲	▲	▲	▲	Front-mounted dozer blades
●	●	●	●	Transporting lights (4 halogen)	<b>REAR ATTACHMENTS</b>				
●	●	●	●	Grading lights (10 halogen lights)	▲	▲	▲	▲	Full bottom guard with access panel and side guards for rear vehicle protection
▲	▲	▲	▲	Deluxe grading lights (18 halogen lights)	●	●	●	●	Rear-mounted ripper/scarifier combination with rear hitch and pin, 3 ripper shanks
▲	▲	●	●	Premium grading lights (18 LED lights)	▲	▲	▲	▲	Rear counterweight with rear hitch and pin
●	▲	▲	▲	Tall front snowplow light bar	▲	▲	▲	▲	Rear hitch and pin
●	●	●	●	Multifunction/multi-language diagnostic LCD color monitor	●	●	●	●	Extra scarifier shanks (9) with teeth for rear ripper scarifier
●	●	●	●	Reverse warning alarm (SAE J994)		▲	▲	▲	Extra ripper shanks (2) with teeth for rear ripper/scarifier
●	●	●	●	LED brake and turn lights	<b>MOLDBOARD</b>				
<b>MOLDBOARD</b>					<b>MOLDBOARD</b>				
<i>Patented pre-stressed, high strength, wear resistant:</i>					<i>Patented pre-stressed, high strength, wear resistant:</i>				
▲	▲			3,66 m x 610 mm x 22 mm (12 ft. x 24 in. x 7/8 in.)	▲	▲	▲	▲	3,66 m x 610 mm x 22 mm (12 ft. x 24 in. x 7/8 in.)
	▲	▲	▲	3,66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.)	●	●	●	●	3,66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.)
	▲	▲	▲	3,96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.)	▲	▲	▲	▲	3,96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.)
●	●	▲	▲	4,27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/8 in.)	▲	▲	▲	▲	4,27 m x 610 mm x 22 mm (14 ft. x 24 in. x 7/8 in.)
	▲	●	▲	4,27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)	●	●	●	●	4,27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)
		●	●	4,88 m x 686 mm x 25 mm (16 ft. x 27 in. x 1 in.)					4,88 m x 686 mm x 25 mm (16 ft. x 27 in. x 1 in.)
●	●	●	●	Quick-change and jackscrew-adjustable moldboard side-shift extreme-duty wear inserts					Quick-change and jackscrew-adjustable moldboard side-shift extreme-duty wear inserts

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 tyres and 3,66 m x 610 mm x 22 mm (12 ft. x 24 in. x 7/8 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 tyres and 4,27 m x 688 mm x 25 mm (14 ft. x 27 in. x 1 in.) high-strength, wear-resistant moldboards with 16 mm x 152 mm (0.63 in. x 6 in.) Dura-Max through-hardened-steel cutting edges for the 870G.

Weights include lubricants, coolants, full fuel tanks, and 79 kg (175 lb.) operators.

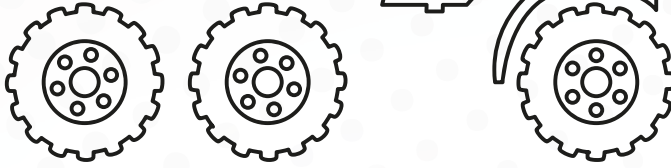
672G	772G	872G		672G	772G	872G	
<b>OPERATOR'S STATION</b>				<b>OVERALL VEHICLE</b>			
●	●	●	Low-profile ROPS/FOPS cab with HVAC (ROPS ISO 3471 / FOPS SAE 3449 Level II)	▲	▲	▲	JDLink™ wireless communication system (available in specific countries; see your dealer for details)
●	●	●	Low-profile ROPS/FOPS cab utilizing laminated glass with fixed lower front and side opening windows	●	●	●	Ground-level fuel and diesel exhaust fluid (DEF) filling
▲	▲	▲	Opening front and side windows (standard with Grade Pro)	●	●	●	Fluid-sampling ports for engine oil and coolant, hydraulic oil, and axle and transmission fluids
●	●	●	Keyless start with multiple security modes	●	●	●	Low-profile ROPS/FOPS cab utilizing laminated glass
●	●	●	Fabric air-suspension seat with armrests and headrest	●	●	●	Vandal-protection locking for: Cab doors / Top tank radiator-access door / Engine coolant surge tank / Hydraulic reservoir cap / Battery-disconnect switch / Ground-level electrical master disconnect switch / Fuel-tank door and cap / Toolbox
▲	▲	▲	Premium heated, leather/fabric, high-wide-back, air-suspension seat with armrests (standard with Grade Pro)	●	●	●	Environmental drains with hoses for engine, transmission, hydraulic, differential fluids, and engine coolant
●	●	●	Sealed-switch module with function indicators	●	●	●	Hydraulically driven cool-on-demand reversing fan
●	●	●	Electric rear-window defroster	●	●	●	Banked easy-access vertical spin-on filters for hydraulic, transmission, and axle fluids
●	●	●	Upper front windshield washers with intermittent wipers	●	●	●	Engine rotary ejector precleaner
●	●	●	Upper rear windshield washers with intermittent wipers	●	●	●	Automatic differential lock
▲	▲	▲	Lower front intermittent wiper and washer	●	●	●	Engine-stall prevention and auto shutdown
▲	▲	▲	Powered cab precleaner	▲	▲		Single-input circle drive
▲	▲	▲	Decelerator pedal	●	●		Single-input circle drive with slip clutch
●	●	●	Flip-down, right- and/or left-hand cab beacon with bracket	▲	▲	▲	Heavy-duty dual-input circle drive without slip clutch
●	●	●	Cab prewired for beacon, radio, and auxiliary circuit	▲	▲	●	Heavy-duty dual-input circle drive with slip clutch
●	●	●	Front window sun visor / retractable rear sunshade	▲	▲	▲	AutoShift transmission
●	●	●	Rearview mirrors, exterior (2) (SAE J985)	▲	▲	●	Blade-impact-absorption system
▲	▲	▲	Heated exterior mirrors (2) (SAE J985)	▲	▲	▲	Front and/or rear wheel fenders
▲	▲	▲	Fire extinguisher	▲	▲	▲	Quick-service bank for transmission, hydraulic, engine oil, and engine coolant fluid changes
▲	▲	▲	High-resolution rearview camera with dedicated monitor	▲	▲	▲	Secondary steering
●	●	●	Retractable seat belt, 76 mm (3 in.) (SAE 386)	▲	▲	▲	Sound-absorption package (Tier 3/Stage IIIA and Tier 2/Stage II)
▲	▲	▲	AM/FM radio with auxiliary and Weather Band (WB)				
▲	▲	▲	AM/FM radio with Bluetooth®, auxiliary, and WB				
●	●	●	Push-button-activated cruise control				
<b>ELECTRICAL</b>				<b>FRONT ATTACHMENTS</b>			
▲	▲	▲	100-amp alternator	●	●	●	Front push block
●	●	●	130-amp alternator	▲	▲	▲	V-type front scarifier with float position, 5 shanks
●	●	●	Batteries (2), 950 CCA with 190-min. reserve capacity	▲	▲	▲	Mid-mount scarifier with float position, 11 shanks
●	●	●	Batteries (2), 1,400 CCA with 440-min. reserve capacity	▲	▲	▲	Front Balderson-style lift group with float position
▲	▲	▲	Left-hand engine compartment service-check light	▲	▲	▲	Front-mounted dozer blades
▲	▲	▲	Right-hand engine compartment service-check light				
●	●	●	Transporting lights (4 halogen)				
▲	▲	▲	Grading lights (10 halogen lights)				
●	●	▲	Deluxe grading lights (18 halogen lights)				
▲	▲	●	Premium grading lights (18 LED lights)				
▲	▲	▲	Tall front snowplow light bar				
●	●	●	Multifunction/multi-language diagnostic LCD color monitor				
●	●	●	Reverse warning alarm (SAE J994)				
●	●	●	LED brake and turn lights				
<b>MOLDBOARD</b>				<b>REAR ATTACHMENTS</b>			
<i>Patented pre-stressed, high strength, wear resistant:</i>				▲	▲	▲	Full bottom guard with access panel and side guards for rear vehicle protection
▲	▲		3,66 m x 610 mm x 22 mm (12 ft. x 24 in. x ¾ in.)	●	●	●	Rear-mounted ripper/scarifier combination with rear hitch and pin, 3 ripper shanks
▲	▲	▲	3,66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.)	▲	▲	▲	Rear counterweight with rear hitch and pin
▲	▲	▲	3,96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.)	▲	▲	▲	Rear hitch and pin
●	▲		4,27 m x 610 mm x 22 mm (14 ft. x 24 in. x ¾ in.)	●	●	●	Extra scarifier shanks (9) with teeth for rear ripper scarifier
▲	●	▲	4,27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)	▲	▲	▲	Extra ripper shanks (2) with teeth for rear ripper/scarifier
	●	●	4,88 m x 686 mm x 25 mm (16 ft. x 27 in. x 1 in.)				
●	●	●	Quick-change and jackscrew-adjustable moldboard side-shift extreme-duty wear inserts				
▲	▲		610 mm (24 in.) left- or right-hand extensions for 610 mm (24 in.) moldboard				
	▲	▲	610 mm (24 in.) left- or right-hand extensions for 686 mm (27 in.) moldboard				
●	●	●	Reversible overlay endbits				
				<b>GRADE CONTROL</b>			
				▲	▲	▲	Mast mounts
				▲	▲	▲	Topcon ready on GP models*
				▲	▲	▲	Trimble ready on GP models*
				▲	▲	▲	Leica ready on GP models*

\*Available soon on G-series models

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 3 050 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 tyres and 3,66 m x 610 mm x 22 mm (12 ft. x 24 in. x ¾ 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 tyres and 4,27 m x 688 mm x 25 mm (14 ft. x 27 in. x 1 in.) high-strength, wear-resistant moldboards with 16 mm x 152 mm (0.63 in. x 6 in.) Dura-Max through-hardened-steel cutting edges for the 870G. Weights include lubricants, coolants, full fuel tanks, and 79 kg (175 lb.) operators.

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**BELL INTERNATIONAL: Tel: +27 (0)35-907 9431**

**E-mail: [marketing@bellequipment.com](mailto:marketing@bellequipment.com)**

**Web: [www.bellequipment.com](http://www.bellequipment.com)**



Tel: +61 (0)8 9355 2442



Tel: +49 (0)6631 / 91 13 0



Tel: +27 (0)11 928 9700



Tel: +44 (0)1283 712862



Tel: +33 (0)5 55 89 23 56



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