

G-series

Motor Grader

670G | 672G | 770G | 772G | 872G



BELL

So many options, one obvious choice

Offering one-of-a-kind advantages and unequalled options, our G-series Graders let you decide how the work gets done.

In tandem or six-wheel drive configurations. Each of these brawny blades comes standard equipped with the same heavy-duty durability and uptime-boosting features including a fuel-efficient nine-litre PowerTech™ diesel engine. Easy-access filter bank. Simple-to-clean swing-out coolers. That's only the beginning. To learn more about the value-added advantages that separate the G-series from the rest of the pack, read on, then contact your Bell Equipment dealer for further details.



Tandem Drive	670G	770G	6 Wheel Drive	672G	772G	872G
Net power	138 kW	172 kW	Net power	138 kW	183 kW	205 kW
Net peak torque	848 Nm	1 227 Nm	Net peak torque	848 Nm	1 288 Nm	1 353 Nm
Torque rise	72%	63%	Torque rise	72%	55%	53%
Typically equipped weight	18 591 kg	18 781 kg	Typically equipped weight	19 360 kg	19 604 kg	20 443 kg
Blade pull	12 800 kg	13 150 kg	Blade pull	19 105 kg	19 595 kg	19 849 kg



The low-effort mechanical control levers are arranged in the familiar industry-standard pattern, and deliver smooth, predictable response.

Tier 2- certified fuel-efficient nine-litre diesel engine deliver generous displacement, power, and lugging ability.

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

Seeing is believing



Colour LCD monitor gives pushbutton access to a wealth of machine info including vital and general operating conditions, diagnostic codes, and the activity behind you (when equipped with camera). In addition, auxiliary attachment flow rates can be adjusted through the monitor.



Sealed-switch module provides pushbutton control of 25 machine functions including keyless start. When enabled, keyless start requires a numeric pass code that helps prevent unauthorized machine operation.



An alternate mounting position on the right-side ROPS post makes it easy to relocate the monitor.



Which grader's visibility is truly best-in-class? Depends on where you're looking. On ours, you have an unobstructed view of the things you need to see. Like the heel and toe, and back side of the blade. Even the area beneath the front axle is clearly visible, so you can see oncoming obstacles.

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

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

Tinted glass, adjustable front and rear shades, and extended roofline help reduce glare. Standard front and rear intermittent wipers and rear window defogger also help keep the view clear.

Narrow centre console and streamlined saddle bring the blade and front tyres within focus.

Large adjustable mirrors that give a clear view of the tandems and ripper. If you need to see more, an optional camera displays the action behind you on the colour LCD monitor in front of you.

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



It's easy to see why these graders are destined to become industry favourites. Visibility is clearly unsurpassed, with a large expanse of floor-to-ceiling tinted glass, narrow front console, and streamlined saddle arms giving way to a commanding view of the work at hand. What's more, the spacious walk-through cab's many amenities provide all of the fatigue-beating comfort and quiet an operator could ever want. So you can count on the kind of productivity you need.

Levels everything but the playing field



Throat clearance between the top of the blade and bottom of the circle has increased significantly for better material flow across the blade. Blade clearance has also increased making it easier to navigate over obstacles.



Jackscrew adjusted sideshift wear inserts keep the moldboard tight and precise. Takes only minutes to return tolerances to factory spec.



Exclusive ball-and-socket draft-frame pivot and seven-position saddle provide best-in-class blade setup and improved ditch cutting, ditch cleaning, and reach outside the tyres.



- Choose from front scarifier, mid-mount scarifier, or rear scarifier/ripper. There's also a front-lift option that simplifies adding a bulldozer blade.

- Optimised moldboard curvature and generous circle torque help keep blades heaped and loads rolling.

- You won't find easier-running graders, either.

- Sporting a different profile than their popular predecessors, the G-series' taller mainframe lets these highly productive graders shoulder larger loads and navigate more easily over obstacles.

- Provides plenty of clearance for a mid-mount scarifier, and simplifies blade setup and operation, too.

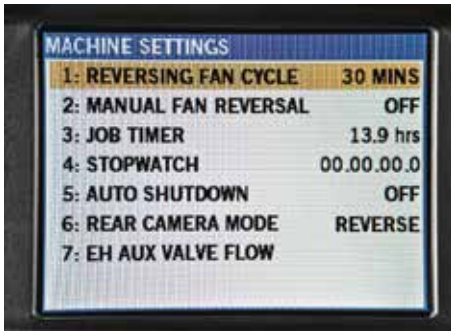
- Our exclusive Event-Based Shifting (EBS) transmission delivers smooth-as-silk gear and direction changes, for exceptional control and grading precision without extra effort. There's nothing else like them.



Best-in-class lever efforts are combined with Pressure-Compensated Load-Sensing (PCLS) hydraulics to ensure consistent, predictable, and precise response. Automatic differential lock stays engaged when travelling straight, disengages in turns exceeding 10 degrees, and re-engages when returning to straight.

With five true working speeds below 25 km/h and a top speed of 28 km/h, it's easy to match ground speed to the work. AutoShift (option) automatically shifts gears four through eight, for even easier operation.

Quality built, Productivity Guaranteed



Reversing fan automatically cycles at predetermined intervals, ejecting debris from the radiator and cooler cores. Or choose your own cleaning cycles through the monitor.



Front axles are built to last with exclusive heavy-duty tapered roller bearing king pins. In addition, steel guards and thick rubber coverings protect the hoses on six-wheel drive models.



Switch module and electrical centre employ circuit-board technology that reduces connections from 25 to 1, and wires from 100 to 4. Solid-state sealed switches keep out moisture, debris, and are proven reliable for more than two million cycles.



High-strength circle and draft frame with stand high-impact loads. Available blade impact system further protects structural components from damage caused by run-ins with obstructions. Blade is pre-stressed for exceptional strength and durability.



- Variable-speed hydraulic fan operates only as needed, reducing wear and tear on cooler cores, fuel consumption, and daily operating costs. Lowers sound levels, too.

- Self-adjusting wet-disc brakes are mounted inboard, where they run cool, clean, and unexposed to corrosive materials.

- Separate transmission, hydraulic and axle filtration and cooling systems prevent cross-contamination for longer component life.

- Purpose-built PowerShift™ transmission employs durable heavy-duty clutches and bearings, for reliable performance, shift after shift.

- Exclusive auto-shutdown applies the brakes and turns off the engine after an operator-determined time of idling. Saves fuel and reduces wear on engine, transmission, and hydraulic components.

anteed



Downtime is lost time. Which is why we loaded-up these graders with durability-enhancing advantages that promise to deliver years of trouble-free service. Large displacement heavy-duty wet-sleeve diesel engines. Larger-than-usual axle shafts, differential locks, hydraulic cylinders, and front axles. Biggest-in-class articulation joint roller bearings. And solid-state electronics and sealed switch modules, to list just a few.

Dynamic Control v

6-Wheel Drive



Steering system automatically adjusts the speed of the outside front tyre while increasing pull to provide full power turns.



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



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

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

• From blue-topping to heavy dirt work, G-series six-wheel-drive graders are more productive in all kinds of applications.

with



Bell tandem-drive graders are highly productive. But if you want to improve your ground game even more, choose a six-wheel-drive configuration. Putting their entire weight and all six tyres to work, their job-proven dual-path hydrostatic drive boosts productivity in all kinds of work. And enables them to accomplish almost everything easier and with fewer passes than their conventional counterparts.

Open wide and be awed

Unlatch the large side panels and you'll discover the many ways these graders minimise maintenance. And help keep daily operating costs low.

Our exclusive swing-out coolers and hinged fan provide wide-open access to both sides of the cores for simplified clean-out. Grouped same-side daily routine. Easy-to-check sight gauges and fluid reservoirs. Quick-change filters. Convenient fluid-sample ports and advanced self-diagnostics- the G-series is loaded with time and money-saving features that help keep maintenance manageable.

To help conserve fuel, auto-idle automatically reduces engine speed after an operator-determined period of inactivity. Hydraulically driven fan runs only as needed, reducing fuel consumption and wear-causing debris flow through the cores.

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

- Compare the total cost of fluids, filters, parts, and labour for recommended maintenance and you'll discover the savings are substantial.

- Large service doors open wide, and same-side daily checkpoints are conveniently grouped for easy ground-level access. Standard service compartment lights illuminate the way.

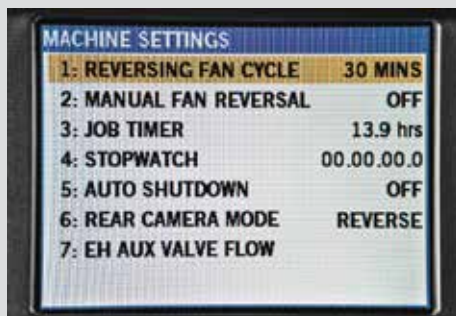
- Never Grease™ is the word for significant savings in operating costs. These no-maintenance pin joints eliminate numerous zerks and the attention they demand.



- Maintenance personnel will appreciate the unique easy-access hydraulic, transmission, and differential filter bank.



- Optional quick fluid serve ports help speed servicing. 500-hour engine oil/filter; 2,000-hour transmission, hydraulic, axle filters; and 4,000-hour transmission, hydraulic, axle oil service intervals minimise maintenance.



- Should a problem arise, easy-to-navigate LCD monitor provides diagnostic info and even offers possible troubleshooting solutions to decrease downtime.



- Two-hour replaceable super-tough nylon or bronze draft frame and circle wear inserts minimise maintenance labour.



- Ground-level fueling.



- Exclusive cooling package features stacked coolers that swing down and a hinged rear fan that opens out of the way for easy cleaning. Takes only seconds to gain access to the cores.



Technical Data - 670G

ENGINE

Manufacturer and Model

John Deere PowerTech™ 6068H

Non-Road Emission Standards

EPA Tier II / EU Stage 2

Displacement

6.8 l

Net Engine Power

Minimum - 108 kW
Maximum - 138 kW

Net Peak Torque

848 Nm @ 1 000 rpm

Net Torque Rise

45%

COOLING

Cooling on demand, hydraulic-driven, variable-speed fan drive to optimise fuel consumption; auto-reversing fan to keep coolers clean; swing-out rear fan door and foldout coolers for easy cleaning of all cooling components.

Engine Coolant, Extended Life, Ratings

-37°C

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 125 l/min gear pump.

Gears

Forward - 8
Reverse - 8

Maximum Travel Speeds

With no tyre slip at 2 180 rpm,
14.0-R24 tyres
Shift Lever Position 1 - 4.0 km/h
Shift Lever Position 8 - 45.5 km/h

Front Axle

Oscillation (total) - 32°
Wheel Lean Angle (each direction) - 20°

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 manoeuvrability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability.

Turning Radius

(front steer & articulation) 7 210 mm

Articulation

(both right and left) 22°

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.

Parking Brake

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

HYDRAULICS

Closed-centre, pressurecompensated load-sensing (PCLS), variable-displacement piston pump, O-ring face-seal fittings.

Maximum Pump Flow

212 l/min

Maximum System Pressure

18 961 kPa

Pump Displacement

90 cm³

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
Blade Side Shift (right/left) 683 mm

Pitch at Ground Line

Forward - 42°
Back - 5°

Shoulder Reach Outside Wheels

(frame straight, right/left) 2 083 mm
Bank Cut Angle (right/left) 90°

ELECTRICAL

Solid-state load centre and sealed-switch module

Voltage

24 volt

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.

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

Rotation

360°

Drive

Hydraulic motor and worm gear with positive lock and slip clutch

Circle Side Shift

(right and left) 787 mm

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.

Length

4 270 mm

Height

(measured along arc, including cutting edge) 610 mm

REAR RIPPER/ SCARIFIER

Parallelogram linkage, with NeverGrease pin joints, hydraulic float, integrated hitch.

Ripper

Width of Cut	2 210 mm
Number of	3 (maximum)
Shanks/Teeth capacity	5
Lift Above Ground	602 mm
Maximum Penetration	426 mm
Shank Size	61.5 mm x 133 mm

Rear Scarifier

Width of Cut	2 180 mm
Number of	9 (maximum)
Shanks/Teeth capacity	9
Lift Above Ground	810 mm
Maximum Penetration	323 mm
Shank Size	25 mm x 76 mm

OPERATOR STATION

Cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005)

TYRES/WHEELS

17.5 - 25 in 12 PR L4 Bias on Multi Piece Rims

SERVICEABILITY

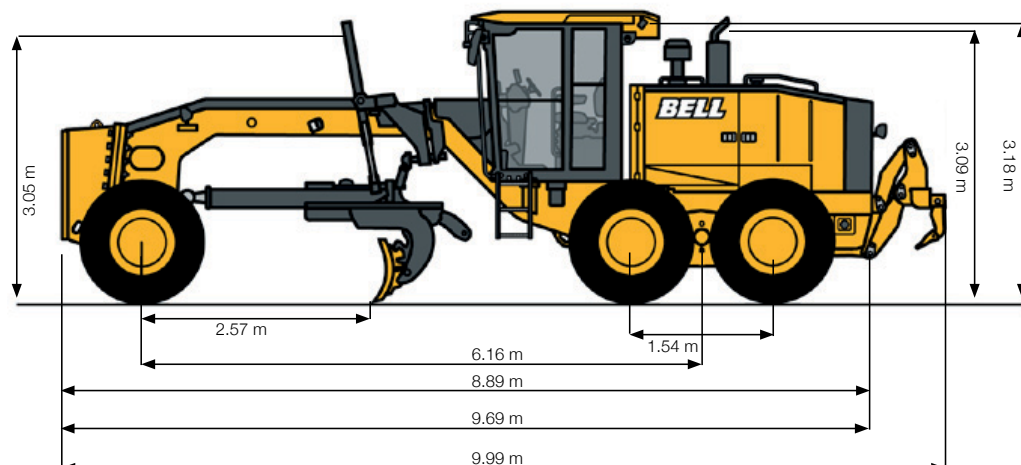
Refill Capacities

Fuel Tank	416.4 l
Cooling System (6.8 l engine)	45.4 l
Engine Oil with Filter (6.8 l engine)	26.1 l
Transmission Fluid (refill)	22.7 l
Differential Housing	36.0 l
Tandem Housings (each)	75.7 l
Circle Gearbox	5.7 l
Hydraulic Reservoir	53.0 l

OPERATING WEIGHTS

Typical Operating Weight with Front Push Block and Ripper

Front	5 542 kg
Rear	13 049 kg
Total	18 591 kg
Maximum Operating Weight	21 228 kg



Technical Data - 672G

ENGINE

Manufacturer and Model

John Deere PowerTech™ 6068H

Non-Road Emission Standards

EPA Tier II / EU Stage 2

Displacement

6.8 l

Net Engine Power

Minimum - 123 kW
Maximum - 138 kW

Net Peak Torque

848 Nm @ 1 000 rpm

Net Torque Rise

45%

COOLING

Cooling on demand, hydraulic-driven, variable-speed fan drive to optimise fuel consumption; auto-reversing fan to keep coolers clean; swing-out rear fan door and foldout coolers for easy cleaning of all cooling components.

Engine Coolant, Extended Life, Ratings

-37°C

POWERTRAIN

Six-Wheel Drive

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

Conventional Mode Effective Gears

1-4 forward and reverse

Precision Mode

Effective Gears: 1-3 forward only
Operating Speeds: 0.4-8.0 km/h

Hydrostatic Pumps (2 each)

64 cm³

Wheel Motors

60 cm³

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 125 l/min gear pump.

Gears

Forward - 8
Reverse - 8

Maximum Travel Speeds

With no tyre slip at 2 180 rpm,
14.0-R24 tyres
Shift Lever Position 1 - 4.0 km/h
Shift Lever Position 8 - 45.5 km/h

Front Axle

Oscillation (total) - 32°

Wheel Lean Angle (each direction) - 20°

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 manoeuvrability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability.

Turning Radius

(front steer & articulation) 7 210 mm

Articulation

(both right and left) 22°

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.

Parking Brake

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

HYDRAULICS

Closed-centre, pressurecompensated load-sensing (PCLS), variable-displacement piston pump, O-ring face-seal fittings.

Maximum Pump Flow

212 l/min

Maximum System Pressure

18 961 kPa

Pump Displacement

90°

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

Blade Side Shift (right/left) 683 mm

Pitch at Ground Line

Forward 42°

Back 5°

Shoulder Reach Outside Wheels

(frame straight, right/left) 2 083 mm

Bank Cut Angle (right/left) 90°

ELECTRICAL

Solid-state load centre and sealed-switch module

Voltage

24 volt

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; 16 deluxe halogen grading lights.

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

Rotation

360°

Drive

Hydraulic motor and worm gear with positive lock and slip clutch

Circle Side Shift

(right and left) 787 mm

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.

Length

4 270 mm

Height

(measured along arc, including cutting edge) 610 mm

REAR RIPPER/ SCARIFIER

Parallelogram linkage, with NeverGrease pin joints, hydraulic float, integrated hitch.

Ripper

Width of Cut	2 210 mm
Number of	3 (maximum)
Shanks/Teeth capacity	5
Lift Above Ground	602 mm
Maximum Penetration	426 mm
Shank Size	61.5 mm x 133 mm

Rear Scarifier

Width of Cut	2 180 mm
Number of	9 (maximum)
Shanks/Teeth capacity	9
Lift Above Ground	810 mm
Maximum Penetration	323 mm
Shank Size	25 mm x 76 mm

OPERATOR STATION

Cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005)

TYRES/WHEELS

17.5 - 25 in 12 PR L4 Bias on Multi Piece Rims

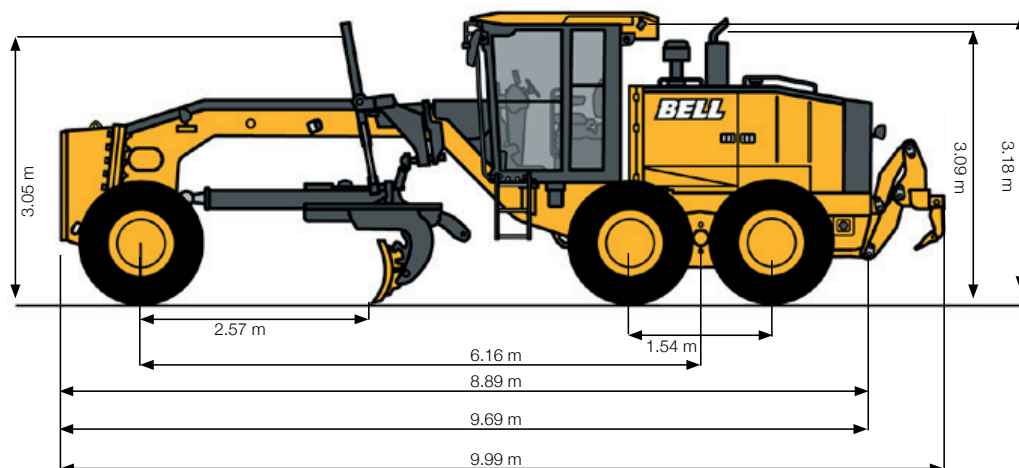
SERVICEABILITY

Refill Capacities

Fuel Tank	416.4 l
Cooling System (6.8 l engine)	49.2 l
Engine Oil with Filter (6.8 l engine)	26.9 l
Transmission Fluid (refill)	22.7 l
Differential Housing	36.0 l
Tandem Housings (each)	75.7 l
Circle Gearbox	5.7 l
Hydraulic Reservoir	53.0 l

OPERATING WEIGHTS

Typical Operating Weight with Front Push Block and Ripper	
Front	6 035 kg
Rear	13 325 kg
Total	19 360 kg
Maximum Operating Weight	21 228 kg



Technical Data - 770G

ENGINE

Manufacturer and Model

John Deere PowerTech™ 6090H

Non-Road Emission Standards

EU Stage 2

Displacement

9.0 l

Net Engine Power

Minimum - 123 kW

Maximum - 172 kW

Net Peak Torque

1 227 Nm @ 900 rpm

Net Torque Rise

63%

COOLING

Cooling on demand, hydraulic-driven, variable-speed fan drive to optimise fuel consumption; auto-reversing fan to keep coolers clean; swing-out rear fan door and foldout coolers for easy cleaning of all cooling components.

Engine Coolant, Extended Life, Ratings

-37°C

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 125 l/min gear pump.

Gears

Forward - 8

Reverse - 8

Maximum Travel Speeds

With no tyre slip at 2 180 rpm,

14.0-R24 tyres

Shift Lever Position 1 - 4.0 km/h

Shift Lever Position 8 - 45.5 km/h

Front Axle

Oscillation (total) - 32°

Wheel Lean Angle (each direction)

- 20°

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 manoeuvrability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability.

Turning Radius

(front steer & articulation) 7 210 mm

Articulation

(both right and left) 22°

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.

Parking Brake

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

HYDRAULICS

Closed-centre, pressurecompensated load-sensing (PCLS), variable-displacement piston pump, O-ring face-seal fittings.

Maximum Pump Flow

212 l/min

Maximum System Pressure

18 961 kPa

Pump Displacement

90 cm³

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

Blade Side Shift (right/left) 683 mm

Pitch at Ground Line

Forward - 42°

Back - 5°

Shoulder Reach Outside Wheels

(frame straight, right/left) 2 083 mm

Bank Cut Angle (right/left) 90°

ELECTRICAL

Solid-state load centre and sealed-switch module

Voltage

24 volt

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; 16 deluxe halogen grading lights.

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

Rotation

360°

Drive

Hydraulic motor and worm gear with positive lock and slip clutch

Circle Side Shift

(right and left) 787 mm

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.

Length

4 270 mm

Height

(measured along arc, including cutting edge) 686 mm

REAR RIPPER/ SCARIFIER

Parallelogram linkage, with NeverGrease pin joints, hydraulic float, integrated hitch.

Ripper

Width of Cut 2 210 mm

Number of 3 (maximum)

Shanks/Teeth capacity 5

Lift Above Ground 602 mm

Maximum Penetration 426 mm

Shank Size 61.5 mm x 133 mm

Rear Scarifier

Width of Cut 2 180 mm

Number of 9 (maximum)

Shanks/Teeth capacity 9

Lift Above Ground 810 mm

Maximum Penetration 323 mm

Shank Size 25 mm x 76 mm

OPERATOR STATION

Cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005) and AC.

TYRES/WHEELS

17.5 - 25 in 12 PR L4 Bias on Multi Piece Rims

SERVICEABILITY

Refill Capacities

Fuel Tank 416.4 l

Cooling System (9.0 l engine) 49.2 l

Engine Oil with Filter 26.9 l

(9.0 l engine)

Transmission Fluid (refill) 22.7 l

Differential Housing 36.0 l

Tandem Housings (each) 75.7 l

Circle Gearbox 5.7 l

Hydraulic Reservoir 53.0 l

OPERATING WEIGHTS

Typical Operating Weight with Front Push Block and Ripper

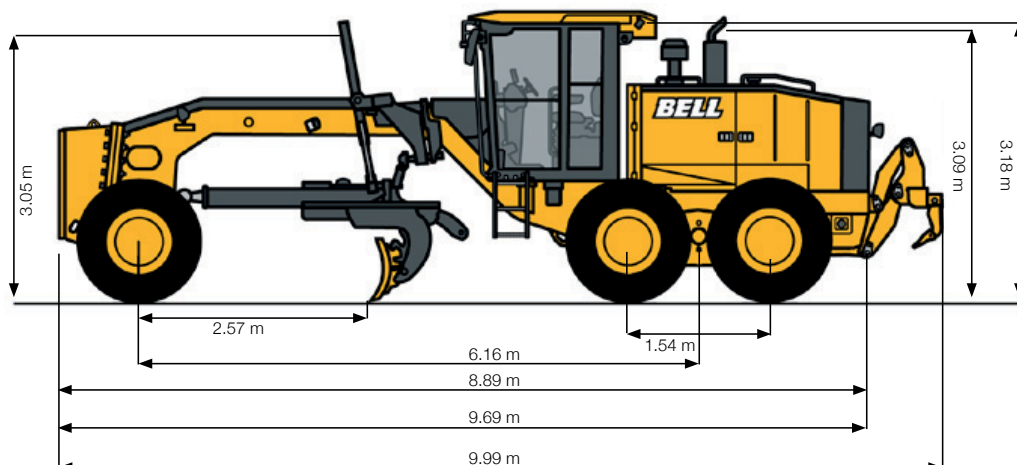
Front 5 605 kg

Rear 13 175 kg

Total 18 781 kg

Maximum Operating

Weight 21 772 kg



Technical Data - 772G

ENGINE

Manufacturer and Model

John Deere PowerTech™ 6090H

Non-Road Emission Standards

EU Stage 2

Displacement

9.0 l

Net Engine Power

Minimum - 145 kW

Maximum - 183 kW

Net Peak Torque

1 288 Nm @ 900 rpm

Net Torque Rise

55%

COOLING

Cooling on demand, hydraulic-driven, variable-speed fan drive to optimise fuel consumption; auto-reversing fan to keep coolers clean; swing-out rear fan door and foldout coolers for easy cleaning of all cooling components.

Engine Coolant, Extended Life, Ratings

-37°C

POWERTRAIN

Six-Wheel Drive

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

Conventional Mode Effective Gears

1-7 forward and reverse

Precision Mode

Effective Gears: 1-3 forward only

Operating Speeds: 0.4-8.0 km/h

Hydrostatic Pumps (2 each)

64 cm³

Wheel Motors

60 cm³

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 125 L/min gear pump.

Gears

Forward - 8

Reverse - 8

Maximum Travel Speeds

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Front Axle

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(all models include steering wheel) All-hydraulic power-frame articulation for manoeuvrability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability.

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Articulation

(both right and left) 22°

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Maximum System Pressure

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Pump Displacement

90 cm³

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

Blade Side Shift (right/left) 683 mm

Pitch at Ground Line

Forward - 42°

Back - 5°

Shoulder Reach Outside Wheels

(frame straight, right/left) 2 083 mm

Bank Cut Angle (right/left) 90°

ELECTRICAL

Solid-state load centre and sealed-switch module

Voltage

24 volt

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; 16 deluxe halogen grading lights.

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

Rotation

360°

Drive

Hydraulic motor and worm gear with positive lock and slip clutch

Circle Side Shift

(right and left) 787 mm

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.

Length

4 270 mm

Height

(measured along arc, including cutting edge) 686 mm

REAR RIPPER/ SCARIFIER

Parallelogram linkage, with NeverGrease pin joints, hydraulic float, integrated hitch

Ripper

Width of Cut 2 210 mm

Number of 3 (maximum)

Shanks/Teeth capacity 5

Lift Above Ground 602 mm

Maximum Penetration 426 mm

Shank Size 61.5 mm x 133 mm

Rear Scarifier

Width of Cut 2 180 mm

Number of 9 (maximum)

Shanks/Teeth capacity 9

Lift Above Ground 810 mm

Maximum Penetration 323 mm

Shank Size 25 mm x 76 mm

OPERATOR STATION

Cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005) and AC

TYRES/WHEELS

17.5 - 25 in 12 PR L4 Bias on Multi Piece Rims

SERVICEABILITY

Refill Capacities

Fuel Tank 416.4 l

Cooling System (9.0 l engine) 49.2 l

Engine Oil with Filter 26.9 l

(9.0 l engine)

Transmission Fluid (refill) 22.7 l

Differential Housing 36.0 l

Tandem Housings (each) 75.7 l

Circle Gearbox 5.7 l

Hydraulic Reservoir 53.0 l

OPERATING WEIGHTS

Typical Operating Weight with Front Push Block and Ripper

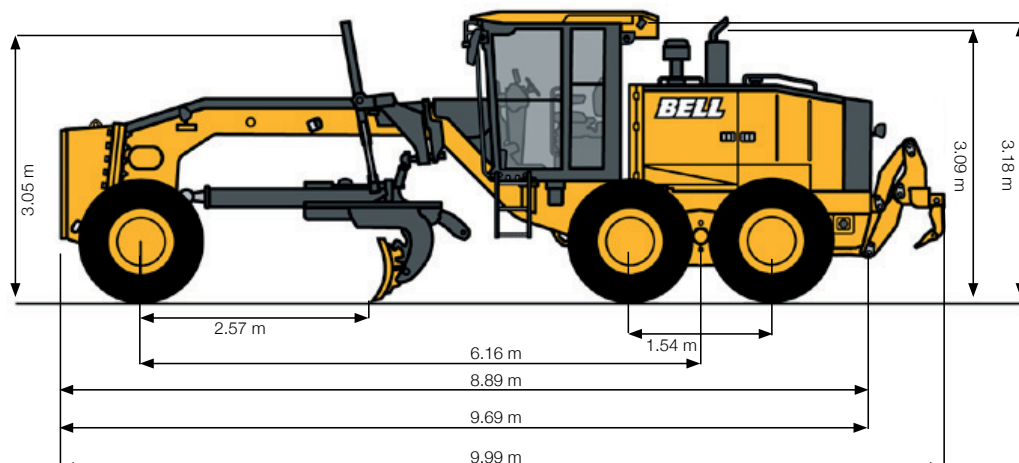
Front 6 177 kg

Rear 13 427 kg

Total 19 604 kg

Maximum Operating

Weight 21 772 kg



Technical Data - 872G

ENGINE

Manufacturer and Model

John Deere PowerTech™ 6090H

Non-Road Emission Standards

EU Stage 2

Displacement

9.0 l

Net Engine Power

Minimum - 160 kW

Maximum - 205 kW

Net Peak Torque

1 353 Nm @ 1 000 rpm

Net Torque Rise

53%

COOLING

Cooling on demand, hydraulic-driven, variable-speed fan drive to optimise fuel consumption; auto-reversing fan to keep coolers clean; swing-out rear fan door and foldout coolers for easy cleaning of all cooling components.

Engine Coolant, Extended Life, Ratings

-37°C

POWERTRAIN

Six-Wheel Drive

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

Conventional Mode Effective Gears

1-7 forward and reverse

Precision Mode

Effective Gears: 1-3 forward only

Operating Speeds: 0.4-8.0 km/h

Hydrostatic Pumps (2 each)

64 cm³

Wheel Motors

60 cm³

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 125 l/min gear pump.

Gears

Forward - 8

Reverse - 8

Maximum Travel Speeds

With no tyre slip at 2 180 rpm,

14.0-R24 tyres

Shift Lever Position 1 - 3.9 km/h

Shift Lever Position 8 - 45.0 km/h

Front Axle

Oscillation (total) - 32°

Wheel Lean Angle (each direction) - 20°

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 manoeuvrability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability.

Turning Radius

(front steer & articulation) 7 210 mm

Articulation

(both right and left) 22°

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.

Parking Brake

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

HYDRAULICS

Closed-centre, pressurecompensated load-sensing (PCLS), variable-displacement piston pump, O-ring face-seal fittings.

Maximum Pump Flow

217 l/min

Maximum System Pressure

18 961 kPa

Pump Displacement

90 cm³

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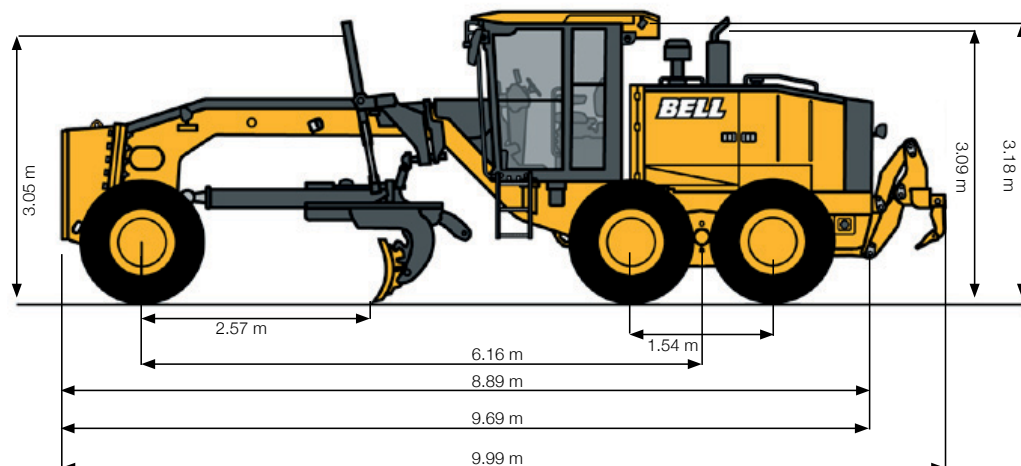
Front 6 407 kg

Rear 14 036 kg

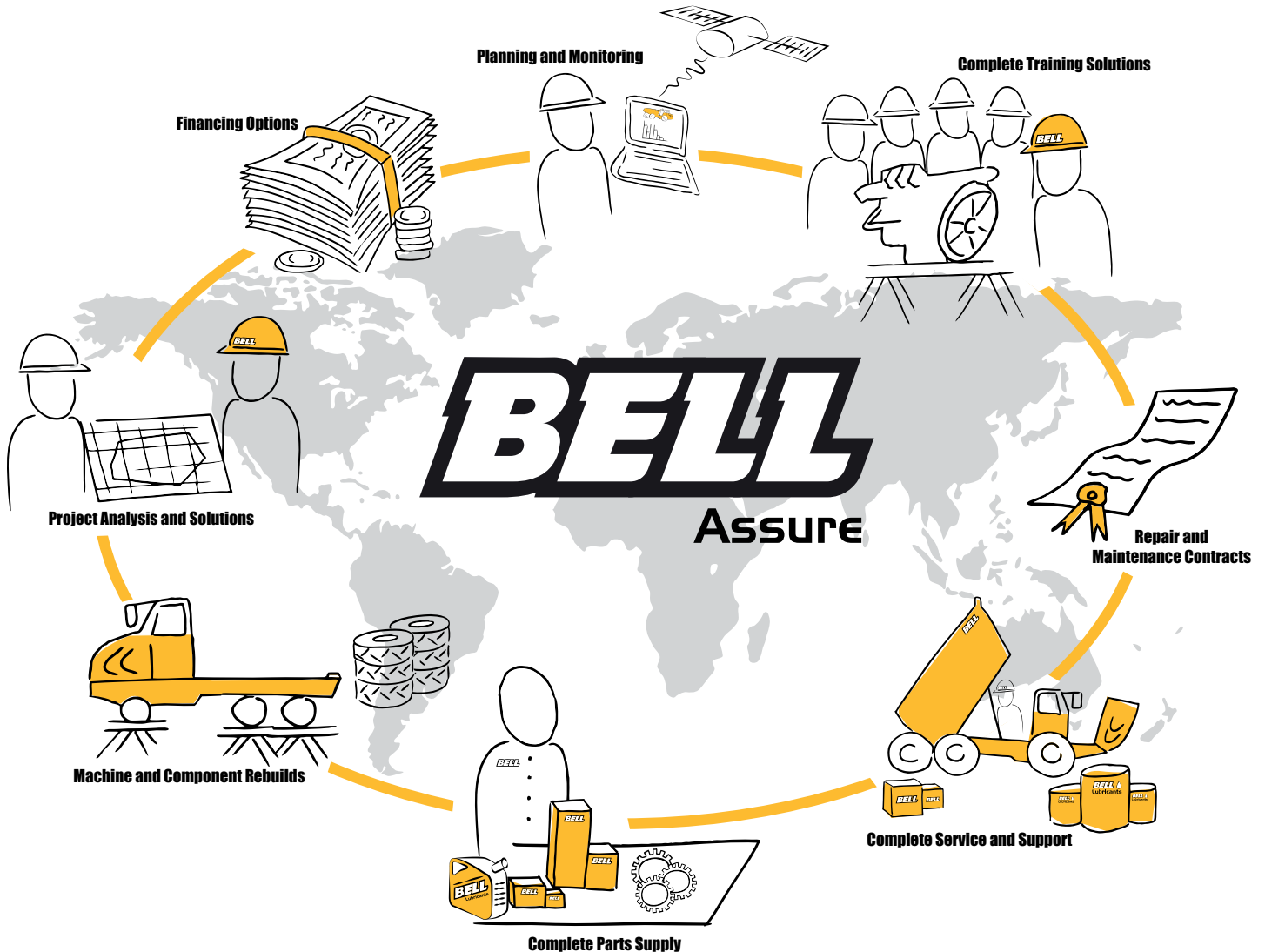
Total 20 443 kg

Maximum Operating

Weight 22 054 kg



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All dimensions are shown in millimetres, unless otherwise stated between brackets.
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