

G-SERIES 4WD
MOTOR GRADERS



JOHN DEERE

770G/GP

JESCO
THE DOWN-TO-EARTH EQUIPMENT PEOPLE™



**CHOOSE HOW
YOU WORK**



770G / GP SPECIFICATIONS

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

| Engine | 770G/GP | | |
|---|---|--|--|
| Manufacturer and Model | John Deere PowerTech™ PSS 9.0L | John Deere PowerTech™ Plus 9.0L | John Deere PowerTech™ 9.0L |
| Non-Road Emission Standard | EPA Final Tier 4/EU Stage V | EPA Tier 3/EU Stage IIIA | EPA Tier 2/EU Stage II |
| Cylinders | 6 | 6 | 6 |
| Displacement | 9.0L (548 cu. in.) | 9.0L (548 cu. in.) | 9.0L (548 cu. in.) |
| Net Engine Power | | | |
| Gear 1 | 149 kW (200 hp) | 149 kW (200 hp) | 149 kW (200 hp) |
| Gear 2 | 157 kW (210 hp) | 157 kW (210 hp) | 157 kW (210 hp) |
| Gear 3 | 168 kW (225 hp) | 164 kW (220 hp) | 164 kW (220 hp) |
| Gear 4 | 172 kW (230 hp) | 168 kW (225 hp) | 168 kW (225 hp) |
| Gear 5 | 179 kW (240 hp) | 172 kW (230 hp) | 172 kW (230 hp) |
| Gear 6 | 183 kW (245 hp) | 179 kW (240 hp) | 179 kW (240 hp) |
| Gear 7 | 187 kW (250 hp) | 183 kW (245 hp) | 183 kW (245 hp) |
| Gear 8 | 190 kW (255 hp) | 187 kW (250 hp) | 187 kW (250 hp) |
| Net Peak Torque | 1314 Nm (980 lb.-ft.) | 1288 Nm (961 lb.-ft.) | 1288 Nm (961 lb.-ft.) |
| Net Torque Rise | 54% | 55% | 55% |
| Aspiration | Series turbocharged, charge-air cooled | Turbocharged, charge-air cooled | Turbocharged, charge-air cooled |
| Lubrication | Full-flow spin-on filter and integral cooler | Full-flow spin-on filter and integral cooler | Full-flow spin-on filter and integral cooler |
| Air Cleaner With Restriction Indicator | Dual element, dry | Dual element, dry | Dual element, dry |
| Cooling | | | |
| Engine Coolant, Extended Life, Rating | –37 deg. C (–34 deg. F) | | |
| Powertrain | | | |
| Transmission | Direct-drive John Deere PowerShift Plus™, modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; independent transmission reservoir with separate filtration and cooling system with 117-L/min. (31 gpm) gear pump | | |
| Gears | | | |
| Forward | 8 | | |
| Reverse | 8 | | |
| Maximum Travel Speeds | No tire slip at 2,180 rpm, 14.0-R24 tires | | No tire slip at 2,180 rpm, 14.0-R24 tires |
| Gear 1 | 4.0 km/h (2.5 mph) | Gear 5 | 16.4 km/h (10.2 mph) |
| Gear 2 | 5.6 km/h (3.5 mph) | Gear 6 | 23.2 km/h (14.4 mph) |
| Gear 3 | 7.7 km/h (4.8 mph) | Gear 7 | 32.3 km/h (20.1 mph) |
| Gear 4 | 10.9 km/h (6.8 mph) | Gear 8 | 45.5 km/h (28.3 mph) |
| Front Axle | Heavy-duty welded fabrication | | |
| Oscillation (total) | 32 deg. | | |
| Wheel Lean Angle (each direction) | 20 deg. | | |
| Differentials | 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 cm³ (5.5 cu. in.) | | |

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| Blade Function | | 770G/GP |
|---|---|--|
| 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) | | 2083 mm (82.0 in.) (6 ft. 10 in.) |
| Bank Cut Angle (right or left) | | 90 deg. |
| Blade Pull | | |
| At Maximum Operating Weight | | 15 501 kg (34,173 lb.) |
| Electrical | | |
| Solid-state load center and sealed-switch module | EPA Final Tier 4/EU Stage V | EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II |
| Voltage | 24 volt | 24 volt |
| Number of Batteries | 2 | 2 |
| Battery Capacity | 1,400 CCA | 1,400 CCA |
| Reserve Capacity | 440 min. | 440 min. |
| Amp-Hour Rating | 224 amp-hour | 224 amp-hour |
| Alternator Rating | | |
| Base | 130 amp | 100 amp |
| Optional | 200 amp | 130 amp |
| Lights | Driving lights; 2 high- and 2 low-beam halogen headlights; 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 | 1770 cm ³ (108 cu. in.) | |
| Average Vertical Section at Saddle | 2245 cm ³ (137 cu. in.) | |
| Draft Frame (drawbar) | | |
| Welded box construction machined for flatness with double ball-and-socket pivot connection | | |
| Circle | | |
| Welded construction, heat-treated, machined for flatness | | |
| | Standard Circle | Premium Circle |
| Circle Diameter | 1524 mm (60 in.) | 1524 mm (60 in.) |
| Rotation | 360 deg. | 360 deg. |
| Surface | Quick-change bronze or nylon wear inserts | Sealed and lubricated roller element slewing bearing |
| Pinion/Ring-Gear Connection | Adjustable backlash and open for serviceability | No adjustment; fully sealed and lubricated |
| Drive | Hydraulic motor and worm gear with positive lock | Hydraulic motor and worm gear with positive lock |
| Slip Clutch | Option | Standard |
| Circle Side Shift (right and left) | 787 mm (31 in.) | 787 mm (31 in.) |
| Moldboard | | |
| High-strength, pre-stressed for higher 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 | 3.66 m (144 in.) (12 ft. 0 in.) | |
| Height (measured along arc, including cutting edge) | 610 mm (24 in.) | |
| Thickness | 22 mm (0.88 in.) | |

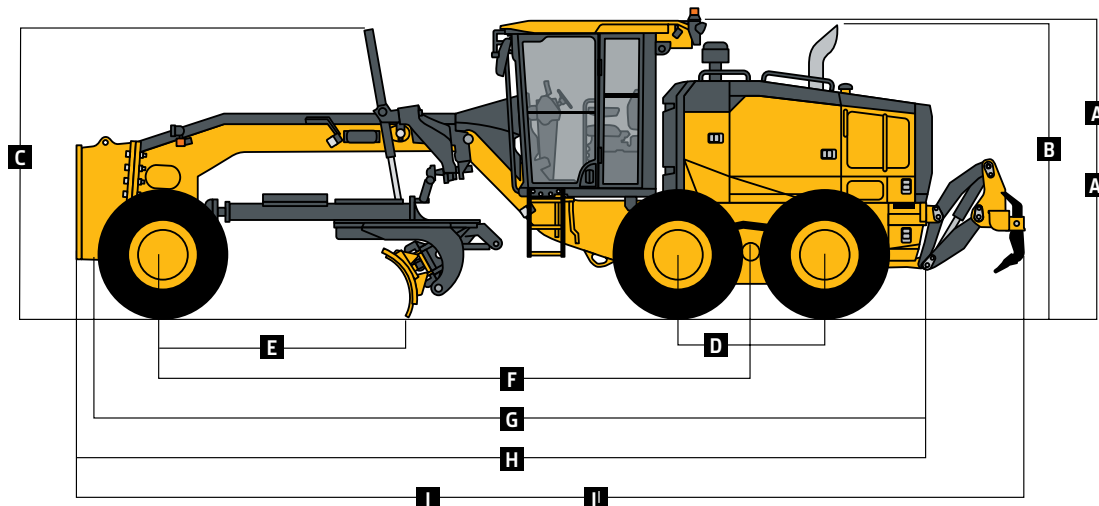
| Cutting Edge | | 770G/GP | |
|--|---|---|----------------------------------|
| Dura-Max™ through-hardened steel edge | | | |
| Thickness | 16 mm (0.62 in.) | | |
| Width | 152 mm (6 in.) | | |
| Scarifiers | | | |
| | Front | Mid-mount | |
| Type | V-type toolbar with 2-pitch positions and hydraulic float | Radial linkage, with NeverGrease™ pin joints; V-type manual 3-pitch positions and hydraulic float | |
| Width of Cut | 1.20 m (48 in.) (4 ft. 0 in.) | 1.19 m (46.7 in.) (3 ft. 11 in.) | |
| Number of Shanks/Teeth | 5 (maximum capacity 9) | 11 | |
| Lift Above Ground | 589 mm (23.2 in.) | 335 mm (13.2 in.) | |
| Maximum Depth | 335 mm (13.2 in.) | 325 mm (12.8 in.) | |
| Shank | | | |
| Spacing | 146 mm (5.75 in.) | 117 mm (4.6 in.) | |
| Size | 25 x 76 mm (1 x 3 in.) | 25 x 76 mm (1 x 3 in.) | |
| Front Lift Group (Balderson-style) | | | |
| Parallel linkage, mechanical pins, and hydraulic float | | | |
| Lift | | | |
| Above Ground (top of tube) | 1864 mm (73.4 in.) | | |
| Range | 988 mm (38.9 in.) | | |
| Rear Ripper/Scarifier | | | |
| Parallel linkage, with NeverGrease pin joints, hydraulic float, and integrated hitch | | | |
| | Ripper | Scarifier | |
| Width of Cut | 2.21 m (87.2 in.) (7 ft. 3 in.) | 2.18 m (86 in.) (7 ft. 2 in.) | |
| Number of Shanks/Teeth | 3 (maximum capacity 5) | None standard (maximum capacity 9) | |
| Lift Above Ground | 602 mm (23.7 in.) | 810 mm (31.9 in.) | |
| Maximum Depth | 426 mm (16.8 in.) | 323 mm (12.7 in.) | |
| Force | | | |
| Penetration | 9616 kg (21,200 lb.) | — | |
| Pry-Out | 12 730 kg (28,066 lb.) | — | |
| Shank Size | 61.5 x 133 mm (2.42 x 5.25 in.) | 25 x 76 mm (1 x 3 in.) | |
| Operator Station | | | |
| Low-profile cab with ROPS (ISO 3471-2008) and FOPS (ISO 3449-2005) | | | |
| Tires/Wheels | | | |
| | 14R24 on 254-mm (10 in.) Rim | 17.5R25 on 356-mm (14 in.) Rim | 550/65R25 on 432-mm (17 in.) Rim |
| Wheel Tread on Ground | 2.08 m (82.0 in.) | 2.16 m (85.0 in.) | 2.21 m (87.0 in.) |
| Overall Width | 2.49 m (98.0 in.) | 2.64 m (104.0 in.) | 2.82 m (111.0 in.) |
| Ground Clearance (front axle) | 587 mm (23.1 in.) | 587 mm (23.1 in.) | 612 mm (24.1 in.) |
| Serviceability | | | |
| Refill Capacities | EPA Final Tier 4/EU Stage V | EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II | |
| Fuel Tank | 416.5 L (110 gal.) | 416.5 L (110 gal.) | |
| Diesel Exhaust Fluid (DEF) Tank | 22.5 L (6 gal.) | — | |
| Cooling System | 55.0 L (14.5 gal.) | 48.5 L (12.8 gal.) | |
| Engine Oil With Filter | 28.4 L (7.5 gal.) | 28.0 L (7.4 gal.) | |
| Transmission Fluid | 28.4 L (7.5 gal.) | 28.4 L (7.5 gal.) | |
| Differential Housing | 38.0 L (10 gal.) | 38.0 L (10 gal.) | |
| Tandem Housings (each) | 74.0 L (19.5 gal.) | 74.0 L (19.5 gal.) | |
| Circle Gearbox | 5.7 L (1.5 gal.) | 5.7 L (1.5 gal.) | |
| Hydraulic Reservoir | 60.5 L (16 gal.) | 53.0 L (14 gal.) | |
| Operating Weights | | | |
| With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard | | | |
| With 152-mm x 16-mm (6 in. x 5⁄8 in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) | | | |
| Operator | EPA Final Tier 4/EU Stage V | EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II | |
| Front | 4320 kg (9,525 lb.) | 4330 kg (9,545 lb.) | |
| Rear | 12 095 kg (26,665 lb.) | 11 451 kg (25,245 lb.) | |
| Total | 16 416 kg (36,190 lb.) | 15 780 kg (34,790 lb.) | |
| Typical Operating Weight With Front Push Block, Rear Ripper/Scarifier, and Other Equipment | | | |
| Front | 5588 kg (12,320 lb.) | 5625 kg (12,400 lb.) | |
| Rear | 13 837 kg (30,505 lb.) | 13 186 kg (29,070 lb.) | |
| Total | 19 425 kg (42,825 lb.) | 18 810 kg (41,470 lb.) | |
| Maximum Operating Weight | 24 948 kg (55,000 lb.) | 24 948 kg (55,000 lb.) | |

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| Option Weights | 770G/GP |
|---|-----------------------|
| Moldboards With Through-Hardened Dura-Max Cutting Edge | |
| 3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x ¾ in.) with 152-mm x 16-mm (6 in. x ¾ in.) cutting edge and 16-mm (¾ in.) hardware | 0 kg (0 lb.) |
| 3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x ¾ in.) with 203-mm x 19-mm (8 in. x ¾ in.) cutting edge and 16-mm (¾ in.) hardware | 45 kg (99 lb.) |
| 3.96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.) with 203-mm x 19-mm (8 in. x ¾ in.) cutting edge and 16-mm (¾ in.) hardware | 180 kg (396 lb.) |
| 4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ¾ in.) with 152-mm x 16-mm (6 in. x ¾ in.) cutting edge and 16-mm (¾ in.) hardware | 105 kg (231 lb.) |
| 4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ¾ in.) with 203-mm x 19-mm (8 in. x ¾ in.) cutting edge and 16-mm (¾ in.) hardware | 157.4 kg (347 lb.) |
| 4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203-mm x 19-mm (8 in. x ¾ in.) cutting edge and 16-mm (¾ in.) hardware | 251 kg (554 lb.) |
| 4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203-mm x 19-mm (8 in. x ¾ in.) cutting edge and 19-mm (¾ in.) hardware | 261 kg (575 lb.) |
| Extensions, 610 mm (2 ft.) (right or left) | |
| For Use With 610-mm (24 in.) Moldboards | 116 kg (255 lb.) |
| For Use With 686-mm (27 in.) Moldboards | 120 kg (265 lb.) |
| Overlay End Bits, Reversible (one pair) | |
| For 152-mm (6 in.) Cutting Edge | 19.5 kg (43 lb.) |
| For 203-mm (8 in.) Cutting Edge | 23 kg (51 lb.) |
| Heavy-Duty Dual-Input Circle-Drive Gearbox | 14 kg (31 lb.) |
| Circle-Drive Slip Clutch | 9 kg (20 lb.) |
| Circle | |
| Standard | 0 kg (0 lb.) |
| Premium | 289 kg (638 lb.) |
| Moldboard Impact-Absorption System | 43 kg (95 lb.) |
| Ripper/Scarifier, Rear Mounted With Hitch and Ripper Shanks (3) | 1139 kg (2,510 lb.) |
| Scarifier Shanks With Teeth (9 for rear ripper/scarifier) | 68 kg (150 lb.) |
| Ripper Shanks and Teeth (2) | 63 kg (139 lb.) |
| Rear Counterweight With Integral Rear Hitch | 727 kg (1,603 lb.) |
| Rear Hitch | 54.4 kg (120 lb.) |
| Machine Dimensions | |
| A Height to Top of Cab | 3.18 m (10 ft. 5 in.) |
| A^I Height to Top of Full-Height Cab | 3.40 m (11 ft. 2 in.) |
| B Height to Top of Exhaust | 3.10 m (10 ft. 2 in.) |
| C Height to Top of Blade-Lift Cylinders | 3.05 m (10 ft. 0 in.) |
| D Tandem Axle Spacing | 1.54 m (5 ft. 1 in.) |
| E Blade Base | 2.57 m (8 ft. 5 in.) |

| Option Weights (continued) | 770G/GP |
|--|------------------------|
| Push Block, Front | 1338 kg (2,950 lb.) |
| Scarifier | |
| Front Mount With Teeth (5) | 831 kg (1,833 lb.) |
| Mid-Mount With Teeth (11) | 1481 kg (3,265 lb.) |
| Front Lift Group (Balderson-style) | 763 kg (1,682 lb.) |
| Tires | |
| 14.00-24, 12 PR G2 | -220.4 kg (-486 lb.) |
| 17.5-25, 12 PR G2/L2 | -106 kg (-234 lb.) |
| 14.00-R24, Radial, G2/L2 General Purpose | 0 kg (0 lb.) |
| 14.00-R24, Radial, G2/L2 Snow | 40.8 kg (90 lb.) |
| 17.5-R25, Radial, L2 General Purpose | 51.7 kg (114 lb.) |
| 17.5-R25, Radial, G2/L2 Snow | 95.3 kg (210 lb.) |
| 17.5-R25, Radial, G3/L3 General Purpose | 141.5 kg (312 lb.) |
| 550/65R25 XLD70 G3/L3 Radial, General Purpose | 495.3 kg (1,092 lb.) |
| 1-Piece Rims | |
| 229 mm x 610 mm (9 in. x 24 in.) | 0 kg (0 lb.) |
| 330 mm x 635 mm (13 in. x 25 in.) | 65.3 kg (144 lb.) |
| Multi-Piece Rims | |
| 254 mm x 610 mm (10 in. x 24 in.) | 179.6 kg (396 lb.) |
| 356 mm x 635 mm (14 in. x 25 in.) | 266.7 kg (588 lb.) |
| 432 mm x 635 mm (17 in. x 25 in.) | 321.1 kg (708 lb.) |
| Fenders | |
| Front | 99 kg (218 lb.) |
| Rear | 141 kg (310 lb.) |
| Low Cab With Opening Front and Side Windows | 14.5 kg (32 lb.) |
| Premium Air-Suspension, Heated Seat With Adjustable 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.) |
| 18 Halogen Lights | 8 kg (18 lb.) |
| 18 LED Lights | 7 kg (16 lb.) |
| High-Front Light Bar for Snowplowing | 20 kg (44 lb.) |
| Auxiliary Hydraulic Control Valve Section and Controls | 7 kg (15 lb.) |
| Hydraulics for Front-Mounted Equipment | 9 kg (19 lb.) |
| Machine Dimensions (continued) | |
| F Wheelbase | 6.16 m (20 ft. 3 in.) |
| G Overall Length | 8.89 m (29 ft. 2 in.) |
| H Overall Length With Scarifier | 9.69 m (31 ft. 9 in.) |
| I Overall Length With Push Block and Ripper | 9.99 m (32 ft. 9 in.) |
| I^I Overall Length With Scarifier and Ripper | 10.59 m (34 ft. 9 in.) |
| For Overall Width see Tires/Wheels on page 24. | |



Additional equipment

Key: ● Standard ▲ Optional or special See your John Deere dealer for further information.

| 620 | 670 | 770 | 870 | Operator's Station |
|-----|-----|-----|-----|---|
| ● | ● | ● | ● | Low-profile ROPS/FOPS cab with HVAC (ROPS ISO 3471 / FOPS SAE 3449 Level II) |
| ▲ | ▲ | ▲ | ▲ | Low-profile ROPS/FOPS cab utilizing laminated glass with fixed lower front and side opening windows |
| ▲ | ▲ | ▲ | ▲ | Opening front and side windows (standard with Grade Pro) |
| ● | ● | ● | ● | Keyless start with multiple security modes |
| ● | ● | ● | ● | Fabric air-suspension seat with armrests and headrest |
| ▲ | ▲ | ▲ | ▲ | Premium heated, leather/fabric, high-wide-back, air-suspension seat with armrests (standard with Grade Pro) |
| ● | ● | ● | ● | Sealed-switch module with function indicators |
| ● | ● | ● | ● | Electric rear-window defroster |
| ● | ● | ● | ● | Upper front windshield washers with intermittent wipers |
| ▲ | ● | ● | ● | Upper rear windshield washers with intermittent wipers |
| ▲ | ▲ | ▲ | ▲ | Lower front intermittent wiper and washer |
| ▲ | ▲ | ▲ | ▲ | Powered cab precleaner |
| ▲ | ▲ | ▲ | ▲ | Decelerator pedal |
| ▲ | ▲ | ▲ | ▲ | Flip-down, right- and/or left-hand cab beacon with bracket |
| ● | ● | ● | ● | Cab prewired for beacon, radio, and auxiliary circuit |
| ● | ● | ● | ● | Front window sun visor |
| ▲ | ▲ | ▲ | ▲ | Retractable rear sunshade |
| ● | ● | ● | ● | Rearview mirrors, exterior (2) (SAE J985) |
| ▲ | ▲ | ▲ | ▲ | Heated exterior mirrors (2) (SAE J985) |
| ▲ | ▲ | ▲ | ▲ | Fire extinguisher |
| ● | ● | ● | ● | High-resolution rear camera with dedicated in-cab monitor (in some markets) |
| ▲ | ▲ | ▲ | ▲ | High-resolution front/rear-camera combination with dedicated in-cab monitor |
| ● | ● | ● | ● | Retractable seat belt, 76 mm (3 in.) (SAE 386) |
| ▲ | ▲ | ▲ | ▲ | AM/FM radio with auxiliary and Weather Band (WB) |
| ▲ | ▲ | ▲ | ▲ | AM/FM radio with Bluetooth®, auxiliary, and WB ready |
| ● | ● | ● | ● | Push-button-activated cruise control |

| 620 | 670 | 770 | 870 | Electrical |
|--|-----|-----|-----|--|
| ● | ● | ● | ● | 100-amp alternator (Tier 3/Stage IIIA and Tier 2/Stage II) |
| ● | ● | ● | ● | 130-amp alternator (FT4/Stage V [optional for Tier 3/Stage IIIA and Tier 2/Stage II]) |
| ▲ | ▲ | ▲ | ▲ | 200-amp alternator (FT4/Stage V) |
| ● | ● | ● | ● | Batteries (2), 1,400 CCA with 440-min. reserve capacity |
| ▲ | ● | ● | ● | Left-hand engine compartment service-check light |
| ▲ | ▲ | ▲ | ▲ | 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 |
| Moldboard | | | | |
| Patented pre-stressed, high strength, wear resistant: | | | | |
| ● | ● | ● | | 3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x 7/8 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 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) |
| | | ▲ | | 4.88 m x 686 mm x 25 mm (16 ft. x 27 in. x 1 in.) |
| ● | ● | ● | ● | Quick-change and jackscrew-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 |
| Overall Vehicle | | | | |
| ● | ● | ● | ● | JDLink™ wireless communication system (available in specific countries; see your dealer for details) |
| ● | ● | ● | ● | Ground-level fuel and diesel exhaust fluid (DEF) filling |
| ▲ | ● | ● | ● | Fluid-sampling ports for engine oil and coolant, hydraulic oil, and axle and transmission fluids |

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Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions specified per ISO9249. No derating is required up to 3050-m (10,000 ft.) altitude. Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on units with standard equipment; 14.0 x 610-mm (24 in.) 12 PR G2, Bias tires and 3.66-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 tires and 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1 in.) high-strength, wear-resistant moldboards with 16-mm x 152-mm (0.63 in. x 6 in.) Dura-Max through-hardened-steel cutting edges for the 870G. Weights include lubricants, coolants, full fuel tanks, and 79-kg (175 lb.) operators.

Additional equipment *(continued)*

Key: ● Standard ▲ Optional or special See your John Deere dealer for further information.

| 620 | 670 | 770 | 870 | Overall Vehicle <i>(continued)</i> |
|---|-----|-----|-----|--|
| ● | ● | ● | ● | Vandal-protection locking for: Cab doors / Top tank radiator-access door / Engine coolant surge tank / Hydraulic reservoir cap / Battery-disconnect switch / Ground-level electrical master disconnect switch / Fuel-tank door and cap / Toolbox |
| ● | ● | ● | ● | Environmental drains with hoses for engine, transmission, hydraulic, differential fluids, and engine coolant |
| ▲ | ● | ● | ● | Hydraulically driven cool-on-demand reversing fan |
| ● | ● | ● | ● | Banked easy-access vertical spin-on filters for hydraulic, transmission, and axle fluids |
| ● | ● | ● | ● | Engine rotary ejector precleaner |
| ● | ● | ● | ● | Automatic differential lock |
| ● | ● | ● | ● | Engine-stall prevention and auto shutdown |
| ▲ | ▲ | ▲ | ▲ | Adjustable rotary engine precleaner (FT4/Stage V) |
| | ▲ | ● | ● | Heavy-duty air cleaner (FT4/Stage V) |
| ● | ● | ● | | Single-input circle drive |
| ▲ | ▲ | ▲ | | Single-input circle drive with slip clutch |
| | ▲ | ▲ | ● | Heavy-duty dual-input circle drive without slip clutch |
| | ▲ | ▲ | ▲ | Heavy-duty dual-input circle drive with slip clutch |
| ▲ | ▲ | ▲ | ▲ | Premium circle |
| ▲ | ▲ | ▲ | ▲ | Auto-Shift transmission |
| ▲ | ▲ | ▲ | ▲ | Auto-Shift PLUS transmission |
| ▲ | ▲ | ▲ | ▲ | Blade-impact-absorption system |
| ▲ | ▲ | ▲ | ▲ | Front and/or rear wheel fenders |
| ▲ | ▲ | ▲ | ▲ | Quick-service bank for transmission, hydraulic, engine oil, and engine coolant fluid changes |
| ▲ | ▲ | ▲ | ▲ | Secondary steering |
| | ▲ | ▲ | ▲ | Sound-absorption package (Tier 3/Stage IIIA and Tier 2/Stage II) |
| ▲ | ▲ | ▲ | ▲ | Wheel chocks |
| Automation (standard on SmartGrade™ models, optional on GP models) | | | | |
| ▲ | ▲ | ▲ | ▲ | Automation Suite |
| ▲ | ▲ | ▲ | ▲ | Auto-Articulation |
| ▲ | ▲ | ▲ | ▲ | Auto-Gain for Cross Slope |
| ▲ | ▲ | ▲ | ▲ | Auto-Pass |
| ▲ | ▲ | ▲ | ▲ | Blade Flip |
| ▲ | ▲ | ▲ | ▲ | Machine Presets |
| ▲ | ▲ | ▲ | ▲ | Machine-Damage Avoidance |

| 620 | 670 | 770 | 870 | Front Attachments |
|------------------------------|-----|-----|-----|--|
| ▲ | ▲ | ▲ | ▲ | Front push block |
| ▲ | ▲ | ▲ | ▲ | V-type front scarifier with float position, 5 shanks |
| ▲ | ▲ | ▲ | ▲ | Mid-mount scarifier with float position, 11 shanks |
| ▲ | ▲ | ▲ | ▲ | Front Balderson-style lift group with float position |
| ▲ | ▲ | ▲ | ▲ | Front-mounted dozer blades |
| Rear Attachments | | | | |
| ● | ● | ● | ● | Full bottom guard with access panel and side guards for rear vehicle protection |
| ▲ | ▲ | ▲ | ▲ | Rear-mounted ripper/scarifier combination with rear hitch and pin, 3 ripper shanks |
| ▲ | ▲ | ▲ | ▲ | Rear counterweight with rear hitch and pin |
| ▲ | ▲ | ▲ | ▲ | Rear hitch and pin |
| ▲ | ▲ | ▲ | ▲ | Extra scarifier shanks (9) with teeth for rear ripper scarifier |
| | ▲ | ▲ | ▲ | Extra ripper shanks (2) with teeth for rear ripper/scarifier |
| Grade Pro (GP) Option | | | | |
| ● | ● | ● | ● | Low-profile GP cab with opening lower front and side windows |
| ▲ | ▲ | ▲ | ▲ | Low-profile GP cab utilizing laminated glass with fixed lower front and side opening windows |
| ● | ● | ● | ● | Premium heated, leather/fabric, high-wide-back, air-suspension seat with armrests |
| ▲ | ▲ | ▲ | ▲ | Dual-joystick controls |
| ▲ | ▲ | ▲ | ▲ | Fingertip armrest-mounted controls including steering lever |
| ● | ● | ● | ● | Steering wheel |
| ● | ● | ● | ● | Cross slope |
| ● | ● | ● | ● | Return to straight |
| Grade Control | | | | |
| ▲ | ▲ | ▲ | ▲ | SmartGrade available on GP models |
| ▲ | ▲ | ▲ | ▲ | Mast mounts |
| ▲ | ▲ | ▲ | ▲ | Topcon ready available on G and GP models |
| ▲ | ▲ | ▲ | ▲ | Trimble ready available on G and GP models |

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IN YOUR WORLD,
**DECIDE HOW YOUR
WORK GETS DONE.**

Take control with more options

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



DKAGGDR (21-04)