

622 P

6WD Motor Grader



JOHN DEERE





MADE TO GRADE AND LEAD THE WAY

Over the past six decades, John Deere motor graders have built a reputation for outstanding machine control and effortless grading precision. The innovative ideas of our customers have led to a legacy of industry firsts. Performance boosters enabled with standard electrohydraulic (EH) controls like exclusive automation features. The choice between dual-joystick or fingertip controls. Grade-control solutions including fully integrated SmartGrade. And the smaller, budget-friendly 622 P-Tier. Its optimized machine specs, reliable capability, and updated cab amenities that put operator comfort front and center can help take your productivity to the next level.

622 P-TIER 6WD MOTOR GRADER

FEATURES

Just your fit

Our competitively priced 622 P-Tier offers customers the grader they asked for, with just the right amount of power and fuel savings of up to 10 percent over our larger models.

Power that checks and balances

Balanced engine horsepower, torque, and blade pull produce generous force and lugging ability, to deliver more power to the ground, easily pull through tough spots, or tackle steep hills. John Deere motor graders are designed with optimal weight distribution over each axle, for outstanding stability and grading performance.

Work your way

Armrest-mounted EH controls help minimize effort and fatigue. Opt for state-of-the-art dual-joystick or fingertip controls that mimic the conventional control pattern. A field kit allows you to easily swap between the two. A steering wheel is also included.

All about the operator

Modern cab features next-generation eight-inch touchscreen display, Automatic Temperature Control system, and centralized machine-function switches, all close at hand. Ergonomic heated/ventilated seat with adjustable armrests is designed for all-day comfort. Enhanced right-hand console tilts for convenient access and storage.

Unlimited grade control

Industry-first John Deere SmartGrade Motor Graders are fully integrated and calibrated from the factory, arriving at your jobsite ready to work. In-cylinder position sensing allows the machine to stay on grade no matter what blade pitch, articulation angle, or circle offset you're running, without the limitations imposed by mast systems.

Capable control

Six-wheel drive is adjustable on the fly, enabling the 622 P-Tier to capably traverse difficult jobsite conditions. Six-wheel-drive controls are effortlessly easy to operate.

Now you see it

High-resolution rearview camera with dedicated in-cab monitor comes standard. Optional dual front alley camera with two in-cab displays presents an overview of the street ahead, improving operator awareness.



ENHANCED
**OPERATOR
AMENITIES**

+



FACTORY EQUIPPED
WITH OPTIONAL
SMARTGRADE™

Beyond beacons

Optional new low-profile roof beacons enhance jobsite visibility. Optional add-on seat-belt-minder beacon is also available.

Count on cross slope

Standard cross slope maintains slopes by automatically adjusting one side of the blade while the operator controls the other. Cross slope can also be operated in “manual mode” as a slope meter. Automated cross slope simplifies holding a consistent slope by reducing operation to a single lever. Both dual-joystick controls and fingertip armrest controls come equipped with cross slope and can be easily upgraded to 3D SmartGrade.

Durable details

High-edge paint and powder-coated latches on service doors step up durability and help protect the machine exterior from wear and damage.

Uptime is everything

All daily service points, including fuel and diesel exhaust fluid (DEF), are grouped on the left side of the machine for convenient ground-level access. On the right, periodic-service points including the engine oil, hydraulic, transmission, differential, and fuel filter bank are within easy reach. Cooling package minus stacked coolers plus hinged swing-out fan simplifies core cleanout. Standard variable-speed hydraulically driven fan runs only as fast or as often as needed, for conservation of power and fuel plus quiet operation.

Positioned for precision

Encoded sensors within the hydraulic cylinders help position them for maximum precision and force, boosting efficiency. The sensors also deliver diagnostics to catch potential system issues.

Premium circle productivity

Featuring a fully sealed bearing and pinion that run smooth and quiet, the industry-leading design of the optional premium circle reduces operating costs while delivering 40-percent more torque and 15-percent more speed than a traditional circle. The premium circle eliminates having to compensate for wear in the circle and improves accuracy when using a grade-control system — especially with John Deere SmartGrade. And greasing intervals of only four zerks every 500 hours make the premium circle easy to maintain. Durable dual-input and proven single-input circles are also available.

Bad-weather warrior

Available as a factory option, the John Deere Path mapping solution enhances efficiency and precision in snow-removal applications. Paired with SF-RTK for repeatable accuracy within one inch, operators get a better sense of road edges and boundaries in winter weather conditions.

Connected machines

John Deere construction equipment comes with in-base connectivity — free from subscriptions or annual renewals. Analyze critical machine data, track utilization, review diagnostic alerts, and more from **the John Deere Operations Center™**. The Operations Center also enables John Deere Connected Support™, which uses data from thousands of connected machines to proactively identify issues and help keep you running. With your approval, your dealer can also remotely monitor machine health, diagnose problems, and even update machine software without a trip to the jobsite.*

*Availability varies by region and product.
Options not available in every country.





622 P-TIER 6WD MOTOR GRADER

PUT INTELLIGENCE TO WORK

With automation features including in-base Auto-Articulation, Blade Flip, and Machine Presets, it's push-button easy to set yourself apart from your competition:

- **Auto-Articulation** lets the operator increase the maneuverability of coordinated steering and articulation while using only the joystick-steering function to steer and operate other necessary functions without manually articulating the machine.
- Use **Blade Flip** to automatically mirror the circle to a preset angle.
- Easily prepare the machine for transport with **Machine Presets**. Stow the blade and ripper, turn on the lights including the hazards, and enable Auto-Shift with one push-button press.

Add these optional automation features to further enhance machine operation:

- **Auto-Shift PLUS** allows operators to move the machine and work without having to use the inching pedal.
- **Auto-Gain for Cross Slope** automatically adjusts gain settings based on ground speed to maximize performance.
- **Machine-Damage Avoidance*** reduces the risk of blade damage to machine structures during any operation.
- **Auto-Pass*** makes grading easy by automatically placing the blade on the ground and activating the grade-control system (when equipped) at the start of the pass, then automatically raising and resetting the blade at the end of it.

*Free 500-hour demo of Machine-Damage Avoidance and Auto-Pass options not available in all countries; see your local John Deere dealer for details.



Engine	622 P-TIER	
Manufacturer and Model	John Deere PowerTech™ PSS 6.8L	John Deere PowerTech™ Plus 6.8L
Non-Road Emission Standard	EPA Final Tier 4/EU Stage V	EPA Tier 3/EU Stage IIIA
Cylinders	6	6
Displacement	6.8L (414 cu. in.)	6.8L (414 cu. in.)
Net Engine Power		
Gear 1	127 kW (170 hp)	127 kW (170 hp)
Gear 2	138 kW (185 hp)	138 kW (185 hp)
Gear 3	149 kW (200 hp)	149 kW (200 hp)
Gear 4	157 kW (210 hp)	157 kW (210 hp)
Gear 5	157 kW (210 hp)*	157 kW (210 hp)*
Gear 6	160 kW (215 hp)*	160 kW (215 hp)*
Gear 7	164 kW (220 hp)*	164 kW (220 hp)*
Gear 8	168 kW (225 hp)*	168 kW (225 hp)*
Net Peak Torque	1035 Nm (763 lb.-ft.)	915 Nm (675 lb.-ft.)
Net Torque Rise	38%	24%
Aspiration	Series 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
Air Cleaner With Restriction Indicator	Dual element, dry	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	1–4 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)	53 cm³ (3.2 cu. in.)	
Wheel Motors	57 cm³ (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	
Gears		
Forward	8	
Reverse	8	
Maximum Travel Speeds	No tire slip at 2,180 rpm, 14.0-R24 tires	Maximum Travel Speeds (continued) 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	

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622 P-TIER MOTOR GRADER SPECIFICATIONS

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Powertrain <i>(continued)</i>		622 P-TIER
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 on electrohydraulic (EH)
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 ³ (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)		2083 mm (82.0 in.) (6 ft. 10 in.)
Bank Cut Angle (right or left)		90 deg.
Blade Pull		
At Maximum Operating Weight		20 412 kg (45,000 lb.)
Electrical		
Solid-state load center and sealed-switch module		
Voltage	EPA Final Tier 4/EU Stage V	EPA Tier 3/EU Stage IIIA
	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
Base Alternator Rating	300 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.)	

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Draft Frame (drawbar) 622 P-TIER		
Welded box construction machined for flatness with double ball-and-socket pivot connection		
Circle		
Welded construction, heat-treated, machined for flatness		
	<i>Standard Circle</i>	<i>Premium Circle</i>
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	787 mm (31 in.)	787 mm (31 in.)
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		
Dura-Max™ through-hardened steel edge		
Thickness	16 mm (0.62 in.)	
Width	152 mm (6 in.)	
Scarifiers		
	<i>Front</i>	<i>Mid-mount</i>
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 (48.0 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.)	
Front Dozer Blade		
Parallel linkage and hydraulic float		
Lift Above Ground	706 mm (27.8 in.)	

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Rear Ripper/Scarifier 622 P-TIER		
Parallel linkage, with NeverGrease pin joints, hydraulic float, and integrated hitch		
	<i>Ripper</i>	<i>Scarifier</i>
Width of Cut	2.21 m (87.2 in.) (7 ft. 3 in.)	2.18 m (86.0 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	9494 kg (20,932 lb.)	—
Pry-Out	12 387 kg (27,309 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		
	<i>14R24 on 254-mm (10 in.) Rim</i>	<i>17.5R25 on 356-mm (14 in.) Rim</i>
Wheel Tread on Ground	2.08 m (82.0 in.)	2.16 m (85.0 in.)
Ground Clearance (front axle)	587 mm (23.1 in.)	587 mm (23.1 in.)
Serviceability		
Refill Capacities	<i>EPA Final Tier 4/EU Stage V</i>	<i>EPA Tier 3/EU Stage IIIA</i>
Fuel Tank	397.0 L (105 gal.)	303.0 L (80 gal.)
Diesel Exhaust Fluid (DEF) Tank	22.5 L (6 gal.)	—
Cooling System	51.0 L (13.5 gal.)	44.0 L (11.6 gal.)
Engine Oil With Filter	31.5 L (8.3 gal.)	26.0 L (6.9 gal.)
Transmission Fluid	28.4 L (7.5 gal.)	28.4 L (7.5 gal.)
Differential Housing	38.0 L (10 gal.)	38.0 L (10 gal.)
Tandem Housings (each)	74.0 L (19.5 gal.)	74.0 L (19.5 gal.)
Circle Gearbox	5.7 L (1.5 gal.)	5.7 L (1.5 gal.)
Hydraulic Reservoir	60.5 L (16 gal.)	53.0 L (14 gal.)
Operating Weights		
With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 7/8 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		
	<i>EPA Final Tier 4/EU Stage V</i>	<i>EPA Tier 3/EU Stage IIIA</i>
Front	4802 kg (10,587 lb.)	4896 kg (10,793 lb.)
Rear	11 986 kg (26,425 lb.)	11 274 kg (24,856 lb.)
Total	16 788 kg (37,011 lb.)	16 170 kg (35,649 lb.)
Typical Operating Weight With Front Push Block, Rear Ripper/Scarifier, and Other Equipment		
Front	5476 kg (12,072 lb.)	5643 kg (12,440 lb.)
Rear	13 529 kg (29,827 lb.)	12 964 kg (28,582 lb.)
Total	19 005 kg (41,899 lb.)	18 607 kg (41,022 lb.)
Maximum Operating Weight	22 680 kg (50,000 lb.)	22 680 kg (50,000 lb.)

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Option Weights	622 P-TIER
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 19-mm (3/4 in.) Hardware	0 kg (0 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 19-mm (3/4 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 19-mm (3/4 in.) Hardware	159 kg (350 lb.)
Extensions, 610 mm (2 ft.) (right or left)	
For Use With 610-mm (24 in.) Moldboards	116 kg (255 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.)
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.)
Rear Counterweight With Integral Rear Hitch	727 kg (1,603 lb.)
Rear Hitch	54.4 kg (120 lb.)
Push Block, Front	907 kg (2,000 lb.)
Scarifier	
Front Mount With Teeth (5)	831 kg (1,833 lb.)
Mid-Mount With Teeth (11)	1481 kg (3,265 lb.)
Front Lift Group (Balderson-style)	763 kg (1,682 lb.)

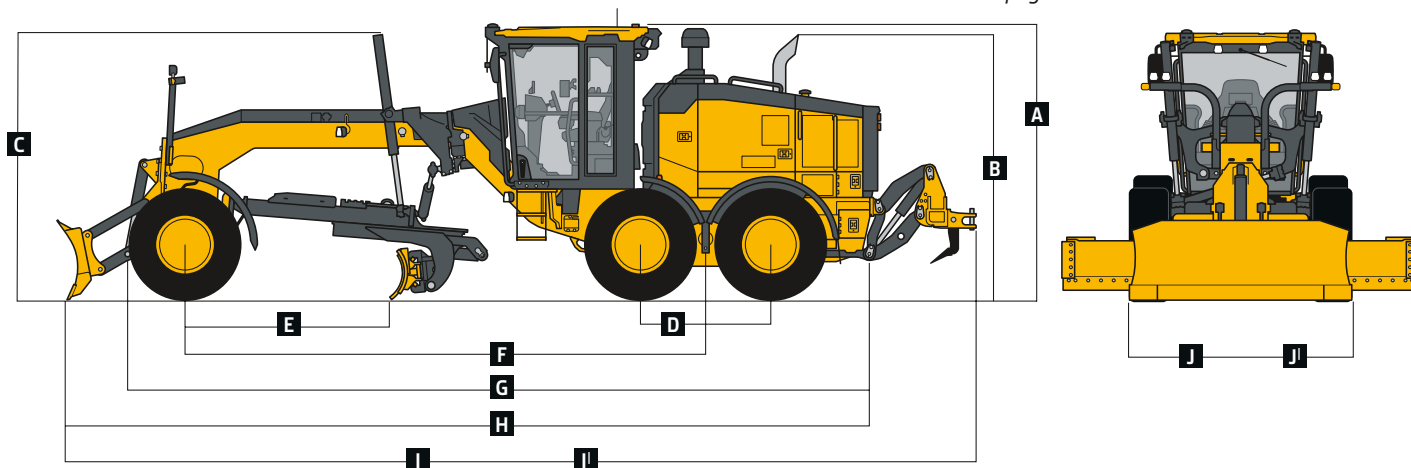
Option Weights <i>(continued)</i>	622 P-TIER
Front Dozer Blade	1039 kg (2,290 lb.)
Tires	
14.00-24, 12 PR G2	-220.4 kg (-486 lb.)
17.5-25, 12 PR G2/L2	-106 kg (-234 lb.)
14.00-R24, Radial, G2/L2 General Purpose	0 kg (0 lb.)
14.00-R24, Radial, G2/L2 Snow	40.8 kg (90 lb.)
17.5-R25, Radial, L2 General Purpose	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.)
Multi-Piece Rims	
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.)
Fenders	
Front	99 kg (218 lb.)
Rear	158 kg (348 lb.)
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.)
Secondary Steering	26 kg (58 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.)
16 LED Premium With Front and Rear Extensions (EU/SV)	28 kg (62 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.)

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Machine Dimensions	622 P-TIER
A Height to Top of Cab	3.18 m (10 ft. 5 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.)
F Wheelbase	6.16 m (20 ft. 3 in.)
G Overall Length	8.89 m (29 ft. 2 in.)

Machine Dimensions (continued)	622 P-TIER
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^l Overall Length With Scarifier and Ripper	10.59 m (34 ft. 9 in.)
Overall Length With Front-Mounted Blade and Ripper	10.60 m (34 ft. 9 in.)
J Overall Width With 14.00-R24 Tires*	2.49 m (8 ft. 2 in.)
J^l Overall Width With 17.5-R25 Tires*	2.64 m (8 ft. 8 in.)

*Also see Tires/Wheels on page 9.



Images and descriptions are for general information only. Some illustrations may depict product options or accessories NOT AVAILABLE in all regions or may require modifications to meet local regulations. Images of equipment models may be digitally or AI generated, are for illustration purposes only, and may not reflect actual products, features, options, or attachments. Equipment availability may be limited. Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions specified per ISO 9249. No derating is required up to 3050-m (10,000 ft.) altitude. Specifications and designs are subject to change without notice and, where applicable, are in accordance with SAE standards. Unless otherwise noted, specifications are based on a unit 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 moldboard with 152-mm x 16-mm (6 in. x 5/8 in.) Dura-Max® through-hardened-steel cutting edges. Weights include lubricants, coolants, full fuel tank, and 79-kg (175 lb.) operator. For complete details, contact your John Deere dealer.



MG622PAU (25-11)



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