





# MAKE GRADE AND MOVE AHEAD IN A BIG WAY

622

For almost six decades, John Deere motor graders have been building a reputation for outstanding control and effortless grading precision. Thanks to the best ideas of customers like you, we've achieved a legacy of industry firsts. Productivity boosters enabled with the electrohydraulic (EH) option like exclusive automation features, cross slope, return to straight, and lever steering. Plus your choice between dual-joystick or fingertip controls. And the smaller, budget-friendly 622 P-Tier. Its exceptional balance, optimized performance specs, and reliable capability can help you take grading performance to the next level and your operation in a reimagined new direction.

### 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. It's equipped — not stripped — with many of the same performance features found on our larger motor graders.

### Power that checks and balances

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

### Freedom of choice

Our P-Tier Graders let you choose how work gets done. EH option provides fatigueminimizing, armrest-mounted controls. Opt for state-of-the-art dual-joystick or fingertip controls that mimic the conventional control pattern. The best of both worlds is available with a field kit that allows you to easily swap between the two. Our P-Tier models also offer conventional lever-operated controls. And based on customer feedback, all models still have a steering wheel.

### Count on cross slope

Standard on machines optioned with EH controls, 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 and fingertip controls come equipped with cross slope.

### **Picture yourself here**

All-around visibility is virtually unobstructed, with a clear view to the heel and toe as well as behind the moldboard. You can also see the area beneath the front axle, for increased awareness of oncoming obstacles. LCD hi-vis monitor provides intuitive, pushbutton access to vital machine data displayed via simple, easy-to-navigate icons and menus. High-resolution rearview camera with dedicated in-cab monitor comes standard.

### **Driven to precision**

On six-wheel-drive models precision mode allows the operator to manage a consistent speed via dial switch instead of inching pedal, maximizing productivity in all soil conditions. Six-wheel drive is adjustable on the fly to capably traverse difficult jobsites.

### **Premium productivity**

Featuring a fully sealed bearing and pinion that run smoother and quieter, the industry-leading design of the optional premium circle reduces operating costs while delivering 40percent more torgue 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. And greasing intervals of only four zerks every 500 hours make the premium circle essentially maintenance free. Durable dual-input and proven single-input circles are also available.

### Uptime is everything

All daily service points including fuel refill are grouped on the left side of the machine for convenient groundlevel access. On the right, periodicservice 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, to conserve power and fuel while reducing noise.

### **Connected machines**

John Deere construction equipment comes with in-base connectivity free from subscriptions or annual renewals. Analyze critical machine data, track utilization, review diaqnostic alerts, and more from **the** John Deere Operations Center<sup>™</sup>. The Operations Center also enables John Deere Connected Support<sup>™</sup>, which uses data from thousands of connected machines to proactively address issues before they arise. 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.



INTUITIVE AUTOMATION SUITE STREAMLINES MACHINE CONTROL



## 622 P-TIER 6WD MOTOR GRADER

# PUT INTELLIGENCE TO WORK

With **Automation Suite** including industry-exclusive Auto-Pass, Blade Flip, and Auto-Shift PLUS, it's pushbutton easy to set yourself apart from your competition. Our automation advantages are available from the factory when the motor grader is equipped with electrohydraulic (EH) controls, or they can be added to the machine in the future:

Available with any control configuration, Auto-Shift PLUS allows operators to work without using the inching pedal.

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.

Machine-Damage Avoidance eliminates 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.
- 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.



## 622 P-TIER MOTOR GRADER 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	622 P-TIER			
Manufacturer and Model	John Deere PowerTech™ PSS 6.8L	John Deere PowerTech™ Plus 6.8L	John Deere PowerTech™ 6.8L	
Non-Road Emission Standard	EPA Final Tier 4 (FT4)/EU Stage V	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II	
Cylinders	6	6	6	
Displacement	6.8 L (414 cu. in.)	6.8L (414 cu. in.)	6.8L (414 cu. in.)	
Net Engine Power				
Gear 1	127 kW (170 hp)	127 kW (170 hp)	127 kW (170 hp)	
Gear 2	138 kW (185 hp)	138 kW (185 hp)	138 kW (185 hp)	
Gear 3	149 kW (200 hp)	145 kW (195 hp)	138 kW (185 hp)	
Gear 4	157 kW (210 hp)	149 kW (200 hp)	138 kW (185 hp)	
Gear 5	157 kW (210 hp)*	149 kW (200 hp)*	138 kW (185 hp)*	
Gear 6	160 kW (215 hp)*	153 kW (205 hp)*	138 kW (185 hp)*	
Gear 7	164 kW (220 hp)*	157 kW (210 hp)*	138 kW (185 hp)*	
Gear 8	168 kW (225 hp)*	157 kW (210 hp)*	138 kW (185 hp)*	
Net Peak Torque	1035 Nm (763 lbft,)	915 Nm (675 lbft.)	831 Nm (613 lbft.)	
Net Torque Rise	38%	30%	44%	
Aspiration	Series turbocharging and charge-air cooling	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled	
Lubrication	Full-flow spin-on filter and integral	Full-flow spin-on filter and integral	Full-flow spin-on filter and integral	
Lashcation	cooler	cooler	cooler	
Air Cleaner With Restriction Indicator	Dual element, dry	Dual element, dry	Dual element, dry	
*6WD not available.	Buar element, ary	Duar element, dry	Buar element, dry	
Cooling				
Engine Coolant, Extended Life, Rating	$27 \text{ deg} \left( \int \frac{2}{4} \text{ deg} \mathbf{E} \right)$			
Powertrain	-37 deg. C (-34 deg. F)			
	Automatic duel wath hudus static drives	in an a strengt in a file at and from the address	atuali ingludaa aagamta laft and siaht	
6-Wheel Drive		increases tractive effort and front-end co		
	systems with variable-displacement pumps, axial-piston wheel motors, and freewheel at transport speeds; operator-selectable			
		ol and inching capability down to 0 mph; pre	ecision mode (propelled by front wheels on	
Effective Gears	15-position rotary aggressiveness contro 1–4 forward and reverse	l and inching capability down to 0 mph; pre	cision mode (propelled by front wheels on	
Precision Mode	1-4 forward and reverse	l and inching capability down to 0 mph; pre	cision mode (propelled by front wheels on	
Precision Mode Effective Gears	1–4 forward and reverse 1–3 forward only	l and inching capability down to 0 mph; pre	cision mode (propelled by front wheels on	
Precision Mode Effective Gears Operating Speeds	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph)	l and inching capability down to 0 mph; pre	cision mode (propelled by front wheels on	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each)	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.)	l and inching capability down to 0 mph; pre	cision mode (propelled by front wheels on	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.)	l and inching capability down to 0 mph; pre	cision mode (propelled by front wheels on	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each)	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1			
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu	l and inching capability down to 0 mph; pre s <sup>™</sup> , modulated shift-on-the-go, Event-Base tration and cooling system with 117-L/min.	ed Shifting (EBS), inching pedal; independ	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears	<ul> <li>1-4 forward and reverse</li> <li>1-3 forward only</li> <li>0.4-8.0 km/h (0.25-5.0 mph)</li> <li>53 cm<sup>3</sup> (3.2 cu. in.)</li> <li>57 cm<sup>3</sup> (3.5 cu. in.)</li> <li>38.7:1</li> <li>Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil</li> </ul>	s <sup>™</sup> , modulated shift-on-the-go, Event-Base	ed Shifting (EBS), inching pedal; independ	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction <b>Transmission</b>	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil 8	s <sup>™</sup> , modulated shift-on-the-go, Event-Base	ed Shifting (EBS), inching pedal; independ	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears	<ul> <li>1-4 forward and reverse</li> <li>1-3 forward only</li> <li>0.4-8.0 km/h (0.25-5.0 mph)</li> <li>53 cm<sup>3</sup> (3.2 cu. in.)</li> <li>57 cm<sup>3</sup> (3.5 cu. in.)</li> <li>38.7:1</li> <li>Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil</li> </ul>	s <sup>™</sup> , modulated shift-on-the-go, Event-Base	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil 8	s <sup>™</sup> , modulated shift-on-the-go, Event-Base	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil 8 8	s <sup>™</sup> , modulated shift-on-the-go, Event-Base tration and cooling system with 117-L/min.	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil 8 8 No tire slip at 2,180 rpm, 14.0-R24 tires 4.0 km/h (2.5 mph)	s <sup>™</sup> , modulated shift-on-the-go, Event-Base tration and cooling system with 117-L/min. Maximum Travel Speeds (continued)	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump No tire slip at 2,180 rpm, 14.0-R24 tire:	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Gear 1	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil 8 8 No tire slip at 2,180 rpm, 14.0-R24 tires 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph)	s <sup>™</sup> , modulated shift-on-the-go, Event-Base tration and cooling system with 117-L/min. Maximum Travel Speeds (continued) Gear 5	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump <i>No tire slip at 2,180 rpm, 14.0-R24 tire</i> 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph)	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Gear 1 Gear 2	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil 8 8 No tire slip at 2,180 rpm, 14.0-R24 tires 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 77 km/h (4.8 mph)	s <sup>™</sup> , modulated shift-on-the-go, Event-Base tration and cooling system with 117-L/min. <b>Maximum Travel Speeds (continued)</b> Gear 5 Gear 6	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump <i>No tire slip at 2,180 rpm, 14.0-R24 tire</i> 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph) 32.3 km/h (20.1 mph)	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Gear 1 Gear 2 Gear 3 Gear 4	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil 8 8 No tire slip at 2,180 rpm, 14.0-R24 tires 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 7.7 km/h (4.8 mph) 10.9 km/h (6.8 mph)	s <sup>™</sup> , modulated shift-on-the-go, Event-Base tration and cooling system with 117-L/min. Maximum Travel Speeds (continued) Gear 5 Gear 6 Gear 7	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump <i>No tire slip at 2,180 rpm, 14.0-R24 tire</i> . 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph)	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Gear 1 Gear 2 Gear 3 Gear 4 Front Axle	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil 8 8 No tire slip at 2,180 rpm, 14.0-R24 tires 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 7.7 km/h (4.8 mph) 10.9 km/h (6.8 mph) Heavy-duty welded fabrication	s <sup>™</sup> , modulated shift-on-the-go, Event-Base tration and cooling system with 117-L/min. Maximum Travel Speeds (continued) Gear 5 Gear 6 Gear 7	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump <i>No tire slip at 2,180 rpm, 14.0-R24 tire</i> 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph) 32.3 km/h (20.1 mph)	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Gear 1 Gear 2 Gear 3 Gear 4 Front Axle Oscillation (total)	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil 8 8 No tire slip at 2,180 rpm, 14.0-R24 tires 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 7.7 km/h (4.8 mph) 10.9 km/h (6.8 mph) Heavy-duty welded fabrication 32 deg.	s <sup>™</sup> , modulated shift-on-the-go, Event-Base tration and cooling system with 117-L/min. Maximum Travel Speeds (continued) Gear 5 Gear 6 Gear 7	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump <i>No tire slip at 2,180 rpm, 14.0-R24 tire</i> 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph) 32.3 km/h (20.1 mph)	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Gear 1 Gear 2 Gear 3 Gear 4 Front Axle Oscillation (total) Wheel Lean Angle (each direction)	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil 8 8 No tire slip at 2,180 rpm, 14.0-R24 tires 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 7.7 km/h (4.8 mph) 10.9 km/h (6.8 mph) Heavy-duty welded fabrication 32 deg. 20 deg.	s <sup>™</sup> , modulated shift-on-the-go, Event-Base tration and cooling system with 117-L/min. <b>Maximum Travel Speeds (continued)</b> Gear 5 Gear 6 Gear 7 Gear 8	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump <i>No tire slip at 2,180 rpm, 14.0-R24 tire</i> . 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph) 32.3 km/h (20.1 mph) 45.5 km/h (28.3 mph)	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Gear 1 Gear 2 Gear 3 Gear 4 Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil 8 8 No tire slip at 2,180 rpm, 14.0-R24 tires 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 7.7 km/h (4.8 mph) 10.9 km/h (6.8 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clur	s <sup>™</sup> , modulated shift-on-the-go, Event-Base tration and cooling system with 117-L/min. <b>Maximum Travel Speeds (continued)</b> Gear 5 Gear 6 Gear 7 Gear 8 tch type can be applied on-the-go; selecta	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump <i>No tire slip at 2,180 rpm, 14.0-R24 tire</i> . 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph) 32.3 km/h (20.1 mph) 45.5 km/h (28.3 mph) ble manual or automatic differential lock	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Gear 1 Gear 2 Gear 3 Gear 4 Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil 8 8 8 No tire slip at 2,180 rpm, 14.0-R24 tires 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 5.6 km/h (3.5 mph) 10.9 km/h (6.8 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clu All-hydraulic power-frame articulation	s <sup>w</sup> , modulated shift-on-the-go, Event-Base tration and cooling system with 117-L/min. <b>Maximum Travel Speeds (continued)</b> Gear 5 Gear 6 Gear 7 Gear 8 tch type can be applied on-the-go; selecta for maneuverability and productivity; crab	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump <i>No tire slip at 2,180 rpm, 14.0-R24 tire</i> , 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph) 32.3 km/h (20.1 mph) 45.5 km/h (28.3 mph) ble manual or automatic differential lock steering reduces side drift, positions	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Gear 1 Gear 2 Gear 3 Gear 4 Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil 8 8 8 No tire slip at 2,180 rpm, 14.0-R24 tires 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 5.6 km/h (3.5 mph) 10.9 km/h (6.8 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clu All-hydraulic power-frame articulation	s <sup>™</sup> , modulated shift-on-the-go, Event-Base tration and cooling system with 117-L/min. <b>Maximum Travel Speeds (continued)</b> Gear 5 Gear 6 Gear 7 Gear 8 tch type can be applied on-the-go; selecta	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump <i>No tire slip at 2,180 rpm, 14.0-R24 tire</i> 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph) 32.3 km/h (20.1 mph) 45.5 km/h (28.3 mph) ble manual or automatic differential lock steering reduces side drift, positions	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Gear 1 Gear 2 Gear 3 Gear 4 Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation)	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil 8 8 8 No tire slip at 2,180 rpm, 14.0-R24 tires 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 7.7 km/h (4.8 mph) 10.9 km/h (6.8 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clu All-hydraulic power-frame articulation tandems on firm ground, and increases 7.21 m (284 in.) (23 ft. 8 in.)	s <sup>w</sup> , modulated shift-on-the-go, Event-Base tration and cooling system with 117-L/min. <b>Maximum Travel Speeds (continued)</b> Gear 5 Gear 6 Gear 7 Gear 8 tch type can be applied on-the-go; selecta for maneuverability and productivity; crab	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump <i>No tire slip at 2,180 rpm, 14.0-R24 tire</i> 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph) 32.3 km/h (20.1 mph) 45.5 km/h (28.3 mph) ble manual or automatic differential lock steering reduces side drift, positions	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Gear 1 Gear 2 Gear 3 Gear 4 Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left)	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil 8 8 8 No tire slip at 2,180 rpm, 14.0-R24 tires 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 7.7 km/h (4.8 mph) 10.9 km/h (6.8 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clur All-hydraulic power-frame articulation tandems on firm ground, and increases 7.21 m (284 in.) (23 ft. 8 in.) 22 deg.	s <sup>w</sup> , modulated shift-on-the-go, Event-Base tration and cooling system with 117-L/min. <b>Maximum Travel Speeds (continued)</b> Gear 5 Gear 6 Gear 7 Gear 8 cch type can be applied on-the-go; selecta for maneuverability and productivity; crab side-slope stability; return-to-straight cor	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump <i>No tire slip at 2,180 rpm, 14.0-R24 tire</i> , 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph) 32.3 km/h (20.1 mph) 45.5 km/h (28.3 mph) ble manual or automatic differential lock steering reduces side drift, positions	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Gear 1 Gear 2 Gear 3 Gear 4 Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left) Final Drives	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil 8 8 No tire slip at 2,180 rpm, 14.0-R24 tires 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 7.7 km/h (4.8 mph) 10.9 km/h (6.8 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clur All-hydraulic power-frame articulation tandems on firm ground, and increases 7.21 m (284 in.) (23 ft. 8 in.) 22 deg. Inboard-mounted planetary sealed in c Foot-controlled, hydraulically operated	s", modulated shift-on-the-go, Event-Base tration and cooling system with 117-L/min. Maximum Travel Speeds (continued) Gear 5 Gear 6 Gear 7 Gear 8 tch type can be applied on-the-go; selecta for maneuverability and productivity; crab side-slope stability; return-to-straight cor poled, filtered oil , multiple wet-disc brakes sealed in pressur	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump No tire slip at 2,180 rpm, 14.0-R24 tire 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph) 32.3 km/h (20.1 mph) 45.5 km/h (28.3 mph) ble manual or automatic differential lock steering reduces side drift, positions ntrol included in Grade Pro option	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Gear 1 Gear 2 Gear 3 Gear 4 Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left) Final Drives Brakes	1–4 forward and reverse 1–3 forward only 0.4–8.0 km/h (0.25–5.0 mph) 53 cm <sup>3</sup> (3.2 cu. in.) 57 cm <sup>3</sup> (3.5 cu. in.) 38.7:1 Direct-drive John Deere PowerShift Plu transmission reservoir with separate fil 8 8 No tire slip at 2,180 rpm, 14.0-R24 tires 4.0 km/h (2.5 mph) 5.6 km/h (3.5 mph) 7.7 km/h (4.8 mph) 10.9 km/h (6.8 mph) Heavy-duty welded fabrication 32 deg. 20 deg. Spiral bevel; hydraulically actuated, clur All-hydraulic power-frame articulation tandems on firm ground, and increases 7.21 m (284 in.) (23 ft. 8 in.) 22 deg. Inboard-mounted planetary sealed in c Foot-controlled, hydraulically operated systems effective on all 4 tandem whee	s <sup>™</sup> , modulated shift-on-the-go, Event-Base tration and cooling system with 117-L/min. Maximum Travel Speeds (continued) Gear 5 Gear 6 Gear 7 Gear 8 tch type can be applied on-the-go; selecta for maneuverability and productivity; crab side-slope stability; return-to-straight con poled, filtered oil , multiple wet-disc brakes sealed in pressur	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump <i>No tire slip at 2,180 rpm, 14.0-R24 tire</i> 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph) 32.3 km/h (20.1 mph) 45.5 km/h (28.3 mph) ble manual or automatic differential lock steering reduces side drift, positions ntrol included in Grade Pro option	
Precision Mode Effective Gears Operating Speeds Hydrostatic Pumps (2 each) Wheel Motors Final Reduction Transmission Gears Forward Reverse Maximum Travel Speeds Gear 1 Gear 2 Gear 3 Gear 3 Gear 4 Front Axle Oscillation (total) Wheel Lean Angle (each direction) Differentials Steering (all models include steering wheel) Turning Radius (front steer and articulation) Articulation (both right and left) Final Drives	<ul> <li>1-4 forward and reverse</li> <li>1-3 forward only</li> <li>0.4-8.0 km/h (0.25-5.0 mph)</li> <li>53 cm<sup>3</sup> (3.2 cu. in.)</li> <li>57 cm<sup>3</sup> (3.5 cu. in.)</li> <li>38.7:1</li> <li>Direct-drive John Deere PowerShift Plut transmission reservoir with separate file</li> <li>8</li> <li>8</li> <li>No tire slip at 2,180 rpm, 14.0-R24 tires</li> <li>4.0 km/h (2.5 mph)</li> <li>5.6 km/h (3.5 mph)</li> <li>7.7 km/h (4.8 mph)</li> <li>10.9 km/h (6.8 mph)</li> <li>Heavy-duty welded fabrication</li> <li>32 deg.</li> <li>20 deg.</li> <li>Spiral bevel; hydraulically actuated, clur All-hydraulic power-frame articulation tandems on firm ground, and increases</li> <li>7.21 m (284 in.) (23 ft. 8 in.)</li> <li>22 deg.</li> <li>Inboard-mounted planetary sealed in c Foot-controlled, hydraulically operated systems effective on all 4 tandem whee Hydraulically actuated, inboard of tand</li> </ul>	s", modulated shift-on-the-go, Event-Base tration and cooling system with 117-L/min. Maximum Travel Speeds (continued) Gear 5 Gear 6 Gear 7 Gear 8 tch type can be applied on-the-go; selecta for maneuverability and productivity; crab side-slope stability; return-to-straight cor poled, filtered oil , multiple wet-disc brakes sealed in pressur	ed Shifting (EBS), inching pedal; independ (31 gpm) gear pump <i>No tire slip at 2,180 rpm, 14.0-R24 tire</i> 16.4 km/h (10.2 mph) 23.2 km/h (14.4 mph) 32.3 km/h (20.1 mph) 45.5 km/h (28.3 mph) ble manual or automatic differential lock steering reduces side drift, positions ntrol included in Grade Pro option	

### 622 P-TIER MOTOR GRADER 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.

Hydraulics	622 P-TIER	
Туре	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.)	
Blade Function		
	nent 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	005 mm (20.5 m)	
Forward	42 deg.	
Back		
Shoulder Reach Outside Wheels (frame	2083 mm (82.0 in.) (6 ft. 10 in.)	
	2003 11111 (02.0 111.) (0 11. 10 111.)	
straight, right or left)	00 dea	
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	EPA FT4/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	1,010 CCA
Reserve Capacity	440 min.	190 min.
Amp-Hour Rating	224 amp-hour	110 amp-hour
Alternator Rating		
Base	130 amp	100 amp
Optional	200 amp	130 amp
Lights		hts; front and rear LED turn signals and marker lights; LED bra
Marta Francis	and hazard warning lights	
Mainframe	Wells the second sectors	
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	1445 cm³ (88 cu. in.)	
Average Vertical Section at Saddle	2245 cm³ (137 cu. in.)	
Draft Frame (drawbar)		
Welded box construction machined for flatn	ess with double ball-and-socket pivot connection	
Circle		
Welded construction, heat-treated, machine	ed for flatness	
	Standard Circle	Premium Circle
Circle Diameter	1524 mm (60 in.)	1524 mm (60 in.)
Rotation	360 deg.	360 deg.
Surface	Quick-change bronze or nylon wear inserts	Sealed and lubricated roller element slewing bearing
Pinion/Ring-Gear Connection	Adjustable backlash and open for serviceability	No adjustment; fully sealed and lubricated
Drive	Hydraulic motor and worm gear with positive lock	Hydraulic motor and worm gear with positive lock
Slip Clutch	Option	Standard
Circle Side Shift (right and left)	787 mm (31 in.)	787 mm (31 in.)
Moldboard		
	athunga pristant high carbon starland array fills and	hite blade side shift waar weten industry with a state
	ngth; wear-resistant, high-carbon steel and reversible end l	bits; blade side-shift wear system includes quick-change
replaceable wear inserts and quick-adjust ja		
Base Length	3.66 m (144 in.) (12 ft. 0 in.)	
Height (measured along arc, including	610 mm (24 in.)	
cutting edge)		
Thickness	22 mm (0.88 in.)	

# 622 P-TIER

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Cutting Edge	622 P-TIER			
Dura-Max <sup>™</sup> through-hardened steel edge	UZZ F-IILK			
Thickness	16 mm (0.62 in.)			
Width	152 mm (6 in.)			
Scarifiers	132 11111 (8 111.)			
Scarifiers	Front		Mid-mount	
Ture	Front			Never Crease Maria is ista V to a second
Туре	V-type toolbar with 2 pitch positions a	nd hydraulic float		NeverGrease <sup>™</sup> pin joints; V-type manual
			3-pitch positions a	
Width of Cut	1.20 m (48 in.) (4 ft. 0 in.)		1.19 m (46.7 in.) (3 f	t. II In.)
Number of Shanks/Teeth	5 (maximum capacity 9)		11	
Lift Above Ground	589 mm (23.2 in.)		335 mm (13.2 in.)	
Maximum Depth	335 mm (13.2 in.)		325 mm (12.8 in.)	
Shank				
Spacing	146 mm (5.75 in.)		117 mm (4.6 in.)	
Size	25 x 76 mm (1 x 3 in.)		25 x 76 mm (1 x 3 ir	1.)
Front Lift Group (Balderson-style)				
Parallel linkage, mechanical pins, and hydrau Lift	lic float			
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			
i alanei ilinage, iliai iterei elease pilijoilis,	Ripper		Scarifier	
Width of Cut	2.21 m (87.2 in.) (7 ft. 3 in.)		2.18 m (86 in.) (7 ft	2 in )
Number of Shanks/Teeth	3 (maximum capacity 5)		None standard (ma	
Lift Above Ground	602 mm (23.7 in.)		810 mm (31.9 in.)	
Maximum Depth	426 mm (16.8 in.)		323 mm (12.7 in.)	
Force	420 mm (10.0 m.)		525 11111 (12.7 111.)	
Penetration	9494 kg (20,932 lb.)			
	12 387 kg (27,309 lb.)		-	
Pry-Out Shank Size			 25 x 76 mm (1 x 3 ir	
	61.5 x 133 mm (2.42 x 5.25 in.)		25 x 76 mm (1 x 3 ir	
Operator Station				
	and EODS (ISO 3440, 200E)			
Low-profile cab with ROPS (ISO 3471-2008) a	and FOPS (ISO 3449-2005)			
		1/1.P.2/1 on 25/1 mm	(10 in ) Pim	175825 on 256 mm (14 in ) Pim
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels	13x24 on 254-mm (10 in.) Rim	14R24 on 254-mm	(10 in.) Rim	17.5R25 on 356-mm (14 in.) Rim
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground	13x24 on 254-mm (10 in.) Rim 2.08 m (82.0 in.)	2.08 m (82.0 in.)	(10 in.) Rim	2.16 m (85.0 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width	<i>13x24 on 254-mm (10 in.) Rim</i> 2.08 m (82.0 in.) 2.49 m (98.0 in.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	(10 in.) Rim	2.16 m (85.0 in.) 2.64 m (104.0 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle)	13x24 on 254-mm (10 in.) Rim 2.08 m (82.0 in.)	2.08 m (82.0 in.)	(10 in.) Rim	2.16 m (85.0 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability	<i>13x24 on 254-mm (10 in.) Rim</i> 2.08 m (82.0 in.) 2.49 m (98.0 in.) 557 mm (21.9 in.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)		2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities	13x24 on 254-mm (10 in.) Rim 2.08 m (82.0 in.) 2.49 m (98.0 in.) 557 mm (21.9 in.) EPA Final Tier 4 (FT4)/EU Stage V	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag	2.16 m (85.0 in.) 2.64 m (104.0 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank	13x24 on 254-mm (10 in.) Rim 2.08 m (82.0 in.) 2.49 m (98.0 in.) 557 mm (21.9 in.) EPA Final Tier 4 (FT4)/EU Stage V 416.5 L (110 gal.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)		2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank	13x24 on 254-mm (10 in.) Rim 2.08 m (82.0 in.) 2.49 m (98.0 in.) 557 mm (21.9 in.) EPA Final Tier 4 (FT4)/EU Stage V 416.5 L (110 gal.) 22.5 L (6 gal.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.) —	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System	13x24 on 254-mm (10 in.) Rim 2.08 m (82.0 in.) 2.49 m (98.0 in.) 557 mm (21.9 in.) EPA Final Tier 4 (FT4)/EU Stage V 416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.) — 44.0 L (11.6 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter	13x24 on 254-mm (10 in.) Rim 2.08 m (82.0 in.) 2.49 m (98.0 in.) 557 mm (21.9 in.) EPA Final Tier 4 (FT4)/EU Stage V 416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.)  44.0 L (11.6 gal.) 26.0 L (6.9 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid	13x24 on 254-mm (10 in.) Rim 2.08 m (82.0 in.) 2.49 m (98.0 in.) 557 mm (21.9 in.) EPA Final Tier 4 (FT4)/EU Stage V 416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.)  44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing	13x24 on 254-mm (10 in.) Rim 2.08 m (82.0 in.) 2.49 m (98.0 in.) 557 mm (21.9 in.) EPA Final Tier 4 (FT4)/EU Stage V 416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each)	13x24 on 254-mm (10 in.) Rim 2.08 m (82.0 in.) 2.49 m (98.0 in.) 557 mm (21.9 in.) EPA Final Tier 4 (FT4)/EU Stage V 416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.)  44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox	13x24 on 254-mm (10 in.) Rim         2.08 m (82.0 in.)         2.49 m (98.0 in.)         557 mm (21.9 in.)         EPA Final Tier 4 (FT4)/EU Stage V         416.5 L (110 gal.)         22.5 L (6 gal.)         51.0 L (13.5 gal.)         31.5 L (8.3 gal.)         28.4 L (7.5 gal.)         38.0 L (10 gal.)         74.0 L (19.5 gal.)         5.7 L (1.5 gal.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir	13x24 on 254-mm (10 in.) Rim 2.08 m (82.0 in.) 2.49 m (98.0 in.) 557 mm (21.9 in.) EPA Final Tier 4 (FT4)/EU Stage V 416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.)  44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights	13x24 on 254-mm (10 in.) Rim         2.08 m (82.0 in.)         2.49 m (98.0 in.)         557 mm (21.9 in.)         EPA Final Tier 4 (FT4)/EU Stage V         416.5 L (110 gal.)         22.5 L (6 gal.)         51.0 L (13.5 gal.)         31.5 L (8.3 gal.)         28.4 L (7.5 gal.)         38.0 L (10 gal.)         74.0 L (19.5 gal.)         5.7 L (1.5 gal.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 3.66-m x 610-mm x	13x24 on 254-mm (10 in.) Rim         2.08 m (82.0 in.)         2.49 m (98.0 in.)         557 mm (21.9 in.)         EPA Final Tier 4 (FT4)/EU Stage V         416.5 L (110 gal.)         22.5 L (6 gal.)         51.0 L (13.5 gal.)         31.5 L (8.3 gal.)         28.4 L (7.5 gal.)         38.0 L (10 gal.)         74.0 L (19.5 gal.)         5.7 L (1.5 gal.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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	13x24 on 254-mm (10 in.) Rim         2.08 m (82.0 in.)         2.49 m (98.0 in.)         557 mm (21.9 in.)         EPA Final Tier 4 (FT4)/EU Stage V         416.5 L (110 gal.)         22.5 L (6 gal.)         51.0 L (13.5 gal.)         31.5 L (8.3 gal.)         28.4 L (7.5 gal.)         38.0 L (10 gal.)         74.0 L (19.5 gal.)         5.7 L (1.5 gal.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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 5/6 in.) Cutting	13x24 on 254-mm (10 in.) Rim         2.08 m (82.0 in.)         2.49 m (98.0 in.)         557 mm (21.9 in.)         EPA Final Tier 4 (FT4)/EU Stage V         416.5 L (110 gal.)         22.5 L (6 gal.)         51.0 L (13.5 gal.)         31.5 L (8.3 gal.)         28.4 L (7.5 gal.)         38.0 L (10 gal.)         74.0 L (19.5 gal.)         5.7 L (1.5 gal.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.) — 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.)
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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 5/6 in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.)	13x24 on 254-mm (10 in.) Rim 2.08 m (82.0 in.) 2.49 m (98.0 in.) 557 mm (21.9 in.) EPA Final Tier 4 (FT4)/EU Stage V 416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.)  44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.) re IIIA and EPA Tier 2/EU Stage II
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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 ½ in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator	13x24 on 254-mm (10 in.) Rim 2.08 m (82.0 in.) 2.49 m (98.0 in.) 557 mm (21.9 in.) <i>EPA Final Tier 4 (FT4)/EU Stage V</i> 416.5 L (110 gal.) 22.5 L (6 gal.) 51.0 L (13.5 gal.) 31.5 L (8.3 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 60.5 L (16 gal.) <i>EPA FT4/EU Stage V</i>	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.)  44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 53.0 L (14 gal.)	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.) re IIIA and EPA Tier 2/EU Stage II
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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 ½ in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator Front	13x24 on 254-mm (10 in.) Rim         2.08 m (82.0 in.)         2.49 m (98.0 in.)         557 mm (21.9 in.)         EPA Final Tier 4 (FT4)/EU Stage V         416.5 L (110 gal.)         22.5 L (6 gal.)         51.0 L (13.5 gal.)         31.5 L (8.3 gal.)         28.4 L (7.5 gal.)         38.0 L (10 gal.)         74.0 L (19.5 gal.)         5.7 L (1.5 gal.)         60.5 L (16 gal.)         EPA FT4/EU Stage V         4795 kg (10,572 lb.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.)  44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 5.3.0 L (14 gal.) EPA Tier 3/EU Stag 4860 kg (10,713 lb.	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.) re IIIA and EPA Tier 2/EU Stage II te IIIA and EPA Tier 2/EU Stage II *
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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 ½ in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator Front Rear	13x24 on 254-mm (10 in.) Rim         2.08 m (82.0 in.)         2.49 m (98.0 in.)         557 mm (21.9 in.)         EPA Final Tier 4 (FT4)/EU Stage V         416.5 L (110 gal.)         22.5 L (6 gal.)         51.0 L (13.5 gal.)         31.5 L (8.3 gal.)         28.4 L (7.5 gal.)         38.0 L (10 gal.)         74.0 L (19.5 gal.)         60.5 L (16 gal.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.)  44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 5.3.0 L (14 gal.) EPA Tier 3/EU Stag 4860 kg (10,713 lb. 11 178 kg (24,643 lb	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.) re IIIA and EPA Tier 2/EU Stage II re IIIA and EPA Tier 2/EU Stage II *
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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 1/2 in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total	13x24 on 254-mm (10 in.) Rim         2.08 m (82.0 in.)         2.49 m (98.0 in.)         557 mm (21.9 in.) <b>EPA Final Tier 4 (FT4)/EU Stage V</b> 416.5 L (110 gal.)         22.5 L (6 gal.)         51.0 L (13.5 gal.)         31.5 L (8.3 gal.)         28.4 L (7.5 gal.)         38.0 L (10 gal.)         74.0 L (19.5 gal.)         5.7 L (1.5 gal.)         60.5 L (16 gal.) <b>EPA FT4/EU Stage V</b> 4795 kg (10,572 lb.)         11 995 kg (26,443 lb.)         16 790 kg (37,015 lb.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.)  44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 5.3.0 L (14 gal.) EPA Tier 3/EU Stag 4860 kg (10,713 lb.	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.) re IIIA and EPA Tier 2/EU Stage II re IIIA and EPA Tier 2/EU Stage II *
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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 I52-mm x 16-mm (6 in. x % in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight With Front Push Bloc	13x24 on 254-mm (10 in.) Rim         2.08 m (82.0 in.)         2.49 m (98.0 in.)         557 mm (21.9 in.) <b>EPA Final Tier 4 (FT4)/EU Stage V</b> 416.5 L (110 gal.)         22.5 L (6 gal.)         51.0 L (13.5 gal.)         31.5 L (8.3 gal.)         28.4 L (7.5 gal.)         38.0 L (10 gal.)         74.0 L (19.5 gal.)         5.7 L (1.5 gal.)         60.5 L (16 gal.) <b>EPA FT4/EU Stage V</b> 4795 kg (10,572 lb.)         11 995 kg (26,443 lb.)         16 790 kg (37,015 lb.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	EPA Tier 3/EU Stag 303 L (80 gal.)  44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 5.7 L (1.5 gal.) 5.3.0 L (14 gal.) EPA Tier 3/EU Stag 4860 kg (10,713 lb. 11 178 kg (24,643 lb	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.) re IIIA and EPA Tier 2/EU Stage II re IIIA and EPA Tier 2/EU Stage II *
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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 I52-mm x 16-mm (6 in. x % in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight With Front Push Bloc Rear Ripper/Scarifier, and Other Equipment	13x24 on 254-mm (10 in.) Rim         2.08 m (82.0 in.)         2.49 m (98.0 in.)         557 mm (21.9 in.)         EPA Final Tier 4 (FT4)/EU Stage V         416.5 L (110 gal.)         22.5 L (6 gal.)         51.0 L (13.5 gal.)         31.5 L (8.3 gal.)         28.4 L (7.5 gal.)         38.0 L (10 gal.)         74.0 L (19.5 gal.)         5.7 L (1.5 gal.)         60.5 L (16 gal.)         EPA FT4/EU Stage V         4795 kg (10,572 lb.)         11 995 kg (26,443 lb.)         16 790 kg (37,015 lb.)         ck,	2.08 m (82.0 in.) 2.49 m (98.0 in.)	<i>EPA Tier 3/EU Stag</i> 303 L (80 gal.)  44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 57. L (1.5 gal.) 53.0 L (14 gal.) <i>53.0</i> L (14 gal.) <i>53.0</i> L (14 gal.) <i>EPA Tier 3/EU Stag</i> 4860 kg (10,713 lb.) 11 178 kg (24,643 lb 16 038 kg (35,357 ll	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.) re IIIA and EPA Tier 2/EU Stage II re IIIA and EPA Tier 2/EU Stage II *
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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 I52-mm x 16-mm (6 in. x 5% in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight With Front Push Bloc Rear Ripper/Scarifier, and Other Equipment Front	13x24 on 254-mm (10 in.) Rim         2.08 m (82.0 in.)         2.49 m (98.0 in.)         557 mm (21.9 in.)         EPA Final Tier 4 (FT4)/EU Stage V         416.5 L (110 gal.)         22.5 L (6 gal.)         51.0 L (13.5 gal.)         31.5 L (8.3 gal.)         28.4 L (7.5 gal.)         38.0 L (10 gal.)         74.0 L (19.5 gal.)         60.5 L (16 gal.)         EPA FT4/EU Stage V         4795 kg (10,572 lb.)         11 995 kg (26,443 lb.)         16 790 kg (37,015 lb.)         ck,	2.08 m (82.0 in.) 2.49 m (98.0 in.)	<i>EPA Tier 3/EU Stag</i> 303 L (80 gal.)  44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 57. L (1.5 gal.) 53.0 L (14 gal.) <i>53.0</i> L (14 gal.) <i>53.0</i> L (14 gal.) <i>EPA Tier 3/EU Stag</i> 4860 kg (10,713 lb.) 11 178 kg (24,643 lb 16 038 kg (35,357 ll 5591 kg (12,325 lb.)	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.) The IIIA and EPA Tier 2/EU Stage II the IIIA and EPA Tier 2/EU Stage II * )* ).)*
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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 I52-mm x 16-mm (6 in. x 5% in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight With Front Push Bloc Rear Ripper/Scarifier, and Other Equipment Front Rear	13x24 on 254-mm (10 in.) Rim         2.08 m (82.0 in.)         2.49 m (98.0 in.)         557 mm (21.9 in.)         EPA Final Tier 4 (FT4)/EU Stage V         416.5 L (110 gal.)         22.5 L (6 gal.)         51.0 L (13.5 gal.)         31.5 L (8.3 gal.)         28.4 L (7.5 gal.)         38.0 L (10 gal.)         74.0 L (19.5 gal.)         60.5 L (16 gal.)         EPA FT4/EU Stage V         4795 kg (10,572 lb.)         11 995 kg (26,443 lb.)         16 790 kg (37,015 lb.)         ck,	2.08 m (82.0 in.) 2.49 m (98.0 in.)	<i>EPA Tier 3/EU Stag</i> 303 L (80 gal.) – 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 57. L (1.5 gal.) 53.0 L (14 gal.) <i>EPA Tier 3/EU Stag</i> 4860 kg (10,713 lb.) 11 178 kg (24,643 lb 16 038 kg (35,357 ll 5591 kg (12,325 lb.) 12 710 kg (28,020 lb	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.) The IIIA and EPA Tier 2/EU Stage II the IIIA and EPA Tier 2/EU Stage II * .)* .)*
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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 5/4 in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight With Front Push Blo Rear Ripper/Scarifier, and Other Equipment Front Rear Total	13x24 on 254-mm (10 in.) Rim         2.08 m (82.0 in.)         2.49 m (98.0 in.)         557 mm (21.9 in.)         EPA Final Tier 4 (FT4)/EU Stage V         416.5 L (110 gal.)         22.5 L (6 gal.)         51.0 L (13.5 gal.)         31.5 L (8.3 gal.)         28.4 L (7.5 gal.)         38.0 L (10 gal.)         74.0 L (19.5 gal.)         5.7 L (1.5 gal.)         60.5 L (16 gal.)         EPA FT4/EU Stage V         4795 kg (10,572 lb.)         11 995 kg (26,443 lb.)         16 790 kg (37,015 lb.)         ck,         5438 kg (11,988 lb.)         13 662 kg (30,120 lb.)         19 100 kg (42,108 lb.)	2.08 m (82.0 in.) 2.49 m (98.0 in.)	<i>EPA Tier 3/EU Stag</i> 303 L (80 gal.) – 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 57. L (1.5 gal.) 53.0 L (14 gal.) 53.0 L (14 gal.) <i>EPA Tier 3/EU Stag</i> 4860 kg (10,713 lb.) 11 178 kg (24,643 lb 16 038 kg (35,357 lf 5591 kg (12,325 lb.) 12 710 kg (28,020 lf 18 300 kg (40,345	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.) The IIIA and EPA Tier 2/EU Stage II the IIIA and EPA Tier 2/EU Stage II * .)* .)* .)*
Low-profile cab with ROPS (ISO 3471-2008) a Tires/Wheels Wheel Tread on Ground Overall Width Ground Clearance (front axle) Serviceability Refill Capacities Fuel Tank Diesel Exhaust Fluid (DEF) Tank Cooling System Engine Oil With Filter Transmission Fluid Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir 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 I52-mm x 16-mm (6 in. x 5% in.) Cutting Edges, 14R24 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight With Front Push Bloc Rear Ripper/Scarifier, and Other Equipment Front Rear	13x24 on 254-mm (10 in.) Rim         2.08 m (82.0 in.)         2.49 m (98.0 in.)         557 mm (21.9 in.)         EPA Final Tier 4 (FT4)/EU Stage V         416.5 L (110 gal.)         22.5 L (6 gal.)         51.0 L (13.5 gal.)         31.5 L (8.3 gal.)         28.4 L (7.5 gal.)         38.0 L (10 gal.)         74.0 L (19.5 gal.)         60.5 L (16 gal.)         EPA FT4/EU Stage V         4795 kg (10,572 lb.)         11 995 kg (26,443 lb.)         16 790 kg (37,015 lb.)         ck,	2.08 m (82.0 in.) 2.49 m (98.0 in.)	<i>EPA Tier 3/EU Stag</i> 303 L (80 gal.) – 44.0 L (11.6 gal.) 26.0 L (6.9 gal.) 28.4 L (7.5 gal.) 38.0 L (10 gal.) 74.0 L (19.5 gal.) 57. L (1.5 gal.) 53.0 L (14 gal.) <i>EPA Tier 3/EU Stag</i> 4860 kg (10,713 lb.) 11 178 kg (24,643 lb 16 038 kg (35,357 ll 5591 kg (12,325 lb.) 12 710 kg (28,020 lb	2.16 m (85.0 in.) 2.64 m (104.0 in.) 587 mm (23.1 in.) The IIIA and EPA Tier 2/EU Stage II the IIIA and EPA Tier 2/EU Stage II * .)* .)* .)*

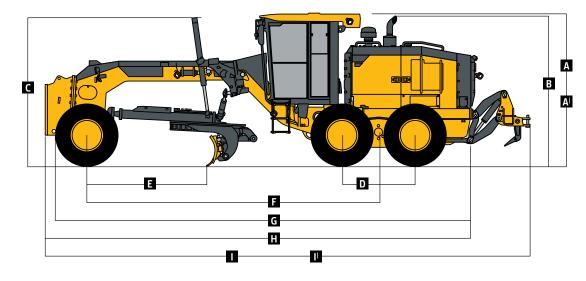
# While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations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

# 622 P-TIER

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 <sup>7</sup> / <sub>4</sub> in.)	0 kg (0 lb.)
With 152-mm x 16-mm (6 in. x <sup>5</sup> / <sub>4</sub> in.) Cutting Edge	<b>J</b> , <b>i i j</b>
and 16-mm (% in.) Hardware	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x 1/8 in.)	45 kg (99 lb.)
With 203-mm x 19-mm (8 in. x ¾ in.) Cutting Edge	5
and 16-mm (¾ in.) Hardware	
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ½ in.)	105 kg (231 lb.)
With 152-mm x 16-mm (6 in. x 5⁄8 in.) Cutting Edge	
and 16-mm (% in.) Hardware	
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x 1/2 in.)	157.4 kg (347 lb.)
With 203-mm x 19-mm (8 in. x ¾ in.) Cutting Edge	
and 16-mm (¾ in.) Hardware	
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, 3 Shank, No Scarifier	1052 kg (2,319 lb.)
Ripper/Scarifier, Rear Mounted With Hitch and	1139 kg (2,510 lb.)
Ripper Shanks (3)	
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 Mounted With Teeth (5)	831 kg (1,833 lb.)
Mid-Mount With Teeth (11)	1481 kg (3,265 lb.)
Machine Dimensions	
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
A <sup>I</sup> Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)
B 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)	622 P-TIER
Front Lift Group (Balderson-style)	763 kg (1,682 lb.)
Tires	
13.00-24, 12 PR G2	–306 kg (–675 lb.)
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	141 kg (310 lb.)
Low Cab With Opening Front and Side Windows	14.5 kg (32 lb.)
Premium Air-Suspension, Heated Seat With Adjustable	13 kg (28 lb.)
Arm- and Headrests	<u> </u>
Coolant Heater	4 kg (9 lb.)
Quick Service	11 kg (24 lb.)
Sound-Absorption Package (machines equipped with	14 kg (31 lb.)
Tier 3/Stage IIIA and Tier 2/Stage II engines only)	2
Secondary Steering	26 kg (58 lb.)
Beacon Bracket	8 kg (18 lb.)
Fire Extinguisher	14.5 kg (32 lb.)
Lighting Packages	5
10 Halogen Lights	4.5 kg (10 lb.)
18 Halogen Lights	8 kg (18 lb.)
18 LED Lights	7 kg (16 lb.)
Auxiliary Hydraulic Control Valve Section and	7 kg (15 lb.)
Controls	<b>J</b> · · ·
Hydraulics for Front-Mounted Equipment	9 kg (19 lb.)
Machine Dimensions (continued)	<b>J</b> · · ·
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 Overall Length With Scarifier and Ripper	10.59 m (34 ft. 9 in.)
For Overall Width see Tires/Wheels on page 8.	

For Overall Width see Tires/Wheels on page 8.



# Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

### 622

### P-TIER 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 side windows (standard with Grade Pro)
- Keyless start with multiple security modes
- Fabric air-suspension seat with armrests and headrest
- Premium heated, leather/fabric, highwide-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
- ▲ Powered cab precleaner
- ▲ Decelerator pedal
- ▲ Flip-down right-hand cab beacon bracket
- Front window sun visor

### 622

- P-TIER Operator's Station (continued)
  - ▲ 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)
  - Push-button-activated cruise control
     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), 1,010 CCA with 190-min.
     reserve capacity (Tier 3/Stage IIIA and Tier 2/Stage II)
  - Batteries (2), 1,400 CCA with 440-min. reserve capacity (FT4/Stage V [optional for Tier 3/Stage IIIA and Tier 2/Stage II])

#### 622 P-TIER Electrical (continued) ▲ Left-hand engine compartment service-

- check light
- Transporting lights (4 halogen)
- Grading lights (10 halogen)
- ▲ Deluxe grading lights (18 halogen)
- ▲ Premium grading lights (18 LED)
- 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 % in.)
- ▲ 4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x <sup>7</sup>/<sub>8</sub> 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
- Reversible overlay endbits
   Overall Vehicle
- JDLink<sup>™</sup> wireless communication system (available in specific countries; see your dealer for details)

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

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions specified per ISO 9249. 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 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 ½ in.) high-strength, wear-resistant moldboards with 16-mm x 152-mm (0.63 in. x 6 in.) Dura-Max<sup>®</sup> through-hardened-steel cutting edges. Weights include lubricants, coolants, full fuel tank, and 79-kg (175 lb.) operator.

# Additional equipment (continued)

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

## 

- P-TIER Overall Vehicle (continued)
  - Diesel exhaust fluid (DEF) (FT4/Stage V only) and ground-level fuel filling
  - Fluid-sampling ports for engine oil and coolant, hydraulic oil, and axle and transmission fluids
  - 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)
- Single-input circle drive with slip clutch

### 620

### P-TIER Overall Vehicle (continued)

- ▲ Single-input circle drive
- Premium circle
   Auto-Shift transmission
- ▲ Auto-Shift PLUS transmission
- Auto-shift PLOS transmission
   Blade-impact-absorption system
- ▲ Front and/or rear wheel fenders
- Quick-service bank for transmission, hydraulic, engine oil, and engine coolant fluid changes
- ▲ Sound-absorption package (Tier 3/ Stage IIIA and Tier 2/Stage II)
- Wheel chocks
- Automation (optional with Grade Pro)
- Automation Suite
- Auto-Articulation
- ▲ Auto-Pass
- ▲ Blade Flip
- Machine Presets
- ▲ Machine-Damage Avoidance 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

622	
<b>P-TIER</b>	Front Attachments (continued)
	Front-mounted dozer blade, 2464 mm (97 in.)
	Front-mounted dozer blade, 2667 mm (105 in.)
	Rear Attachments
•	Full bottom guard with access panel and side guards for rear vehicle protection
	Rear-mounted ripper/scarifier combi- nation with rear hitch and pin, 3 ripper shanks
	Rear counterweight with rear hitch and pin
	Scarifier shanks (9) with teeth for rear ripper scarifier
	Grade Pro Option
•	Low-profile Grade Pro 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 lever steering
- Steering wheel
- Cross slope
- Return to straight

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