870G/GP

Engine	870G/GP		
Manufacturer and Model	John Deere PowerTech™ PSX 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech™ 9.0L
Non-Road Emissions Standard	EPA Interim Tier 4/EU Stage IIIB	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II
Cylinders	6	6	6
Displacement	9.0L (548 cu. in.)	9.0L (548 cu. in.)	9.0L (548 cu. in.)
Net Power			
Gear 1	138 kW (185 hp)	134 kW (180 hp)	134 kW (180 hp)
Gear 2	143 kW (192 hp)	136 kW (182 hp)	136 kW (182 hp)
Gear 3	157 kW (210 hp)	152 kW (204 hp)	152 kW (204 hp)
Gear 4	166 kW (223 hp)	163 kW (219 hp)	163 kW (219 hp)
Gear 5	172 kW (231 hp)	169 kW (227 hp)	169 kW (227 hp)
Gear 6	185 kW (248 hp)	179 kW (240 hp)	179 kW (240 hp)
Gear 7	195 kW (261 hp)	186 kW (250 hp)	186 kW (250 hp)
Gear 8	198 kW (265 hp)	190 kW (255 hp)	190 kW (255 hp)
Net Peak Torque	1300 Nm (959 lbft.)	1287 Nm (949 lbft.)	1287 Nm (949 lbft.)
Net Torque Rise	53%	60%	60%
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled
Lubrication	Full-flow spin-on filter and inte- gral cooler	Full-flow spin-on filter and inte- gral cooler	Full-flow spin-on filter and inte- gral cooler
Air Cleaner with Restriction Indicator	Dual element, dry	Dual element, dry	Dual element, dry
Cooling			

Cooling-on-demand, hydraulic-driven, variable-speed fan drive to optimize fuel consumption; auto-reversing fan to keep coolers clean; swing-out rear fan door and foldout or sliding coolers for easy cleaning of all cooling components Engine Coolant, Extended Life, Rating –37 deg. C (–34 deg. F) Powertrain

Transmission	Direct-drive John Deere PowerShift Plus™, modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal; independent transmission reservoir with separate filtration and cooling system with 121-L/min. (32 gpm) gear pump		
Gears			
Forward	8		
Reverse	8		
Maximum Travel Speeds	With no tire slip at 2,180 rpm, 14.00-R24 tires		
Shift Lever Position 1	3.9 km/h (2.4 mph)		
Shift Lever Position 2	5.6 km/h (3.5 mph)		
Shift Lever Position 3	7.9 km/h (4.9 mph)		
Shift Lever Position 4	10.9 km/h (6.8 mph)		
Shift Lever Position 5	16.7 km/h (10.4 mph)		
Shift Lever Position 6	23.3 km/h (14.5 mph)		
Shift Lever Position 7	32.2 km/h (20.0 mph)		
Shift Lever Position 8	45.0 km/h (28.0 mph)		
Front Axle	Heavy-duty welded fabrication		
Oscillation (total)	32 deg.		
Wheel Lean Angle (each direction)	20 deg.		
Differentials	Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic differential lock		
Steering (all models include steering wheel)	All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro option		
Turning Radius (front steer and articulation)	7.21 m (23 ft. 8 in.)		
Articulation (both right and left)	22 deg.		
Final Drives	Inboard-mounted planetary sealed in cooled, filtered oil		
Drive-Chain Pitch	51 mm (2 in.)		
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	870G/GP
,	CLS), variable-displacement piston pump, O-ring face-seal fittings
Maximum Pump Flow	217 L/min. (57.4 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 bla	de-function controls; includes float position; 7 discrete saddle positions
Blade Range	
Lift Above Ground	452 mm (17.8 in.)
Blade Side Shift (right or left)	683 mm (26.9 in.)
Pitch at Ground Line	
Forward	42 dea.
Back	5 deg.
Shoulder Reach Outside Wheels (frame straight, right or left)	2329 mm (7 ft. 8 in.)
Bank Cut Angle (right or left)	90 deg.
Productivity	
Blade Pull (maximum weight [22 054 kg (48,620 lb.)], 0.9 coefficient of traction)	13 299 kg (29,320 lb.)
Electrical	
Solid-state load center and sealed-switch module	
Voltage	24 volt
Number of Batteries	2
Battery Capacity	1,400 CCA
Reserve Capacity	440 min.
Amp-Hour Rating	224 amp-hour
Alternator Rating	100, 130, or 150 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	
Туре	Welded box construction
Width (minimum)	307 mm (12.1 in.)
Height (minimum)	307 mm (12.1 in.)
Thickness	
Side	16 mm (0.63 in.)
Top and Bottom Plate	30 mm (1.17 in.)
Modulus	
Minimum Vertical Section	1770 cm ³ (108 cu. in.)
Average Vertical Section at Saddle	2635 cm³ (161 cu. in.)
Draft Frame (drawbar)	
	ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts
Circle	
	iess, equipped with quick-change replaceable wear inserts
Circle Diameter	1524 mm (60 in.)
Circle Diameter Rotation	1524 mm (60 in.) 360 deg.
Circle Diameter Rotation Drive	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock
Circle Diameter Rotation Drive Circle Side Shift (right and left)	1524 mm (60 in.) 360 deg.
Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.)
Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable
Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system Length	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 4.27 m (14 ft. 0 in.)
Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge)	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 4.27 m (14 ft. 0 in.) 686 mm (27 in.)
Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge) Thickness	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 4.27 m (14 ft. 0 in.)
Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge) Thickness Cutting Edge	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 4.27 m (14 ft. 0 in.) 686 mm (27 in.)
Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge) Thickness Cutting Edge Dura-Max [™] through-hardened steel edge	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 4.27 m (14 ft. 0 in.) 686 mm (27 in.) 25 mm (1 in.)
Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear- wear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge) Thickness Cutting Edge	1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.) resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change replaceable 4.27 m (14 ft. 0 in.) 686 mm (27 in.)

Scarifiers	870G/GP				
	Front		Mid-mount		
Туре	V-type toolbar with manual 2-pitch positions, with hydraulic float		Radial linkage, with NeverGrease [™] pin joints; V-type toolbar with manual 3-pitch positions, with hydrau- lic float		
Width of Cut	1.20 m (4 ft. 0 in.)		1.19 m (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 Penetration	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	3 in.)	
Front Lift Group (Balderson-style)					
Parallel linkage, mechanical pins, and hydraulic float Lift					
Above Ground (top of tube)	1864 mm (73.4 in.)				
Range	988 mm (38.9 in.)				
Rear Ripper/Scarifier					
Parallel linkage, with NeverGrease pin joints, hydraulic	float, and integrated hitch				
	Ripper		Scarifier		
Width of Cut	2.21 m (7 ft. 3 in.)		2.18 m (7 ft. 2 in.)		
Number of Shanks/Teeth	3 (maximum capacity 5)		•	, naximum capacity 9)	
Lift Above Ground	602 mm (23.7 in.)		810 mm (31.9 in.)		
Maximum Penetration	426 mm (16.8 in.)		323 mm (12.7 in.	•	
Shank Size	61.5 x 133 mm (2.42 x 5.25 in.)		25 x 76 mm (1 x 3		
Operator Station				,	
LOW-DIOTILE CAD WITH KUPS (ISU 34/1-2008) and FUPS	(150 3449-2005)				
	(ISO 3449-2005)				
		17.5-25 on 356-	mm (14 in.) Rim	550/65R25 on 432-mm (17 in.) Riv	
Tires/Wheels	14.00-24 on 254-mm (10 in.) Rim	17.5-25 on 356- 2.16 m (85 in.)	mm (14 in.) Rim		
Tires/Wheels Wheel Tread on Ground (front and rear)	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.)	2.16 m (85 in.)	mm (14 in.) Rim	2.21 m (87 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear)	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear)	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.)	2.16 m (85 in.)		2.21 m (87 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill)	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each)	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.)	2.16 m (85 in.) 2.64 m (104 in.)		2.21 m (87 in.) 2.77 m (109 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x ³ / ₄ in.) Cutting Edges, 17.5 R 25 L2 Tires, and	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.) 60.6 L (16 gal.)	2.16 m (85 in.) 2.64 m (104 in.)	.)	2.21 m (87 in.) 2.77 m (109 in.) 612 mm (24.1 in.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x ³ / ₄ in.) Cutting Edges, 17.5 R 25 L2 Tires, and	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.) 60.6 L (16 gal.) EPA Interim Tier 4/EU Stage IIIB	2.16 m (85 in.) 2.64 m (104 in.)	.) EPA Tier 3/EU Sta	2.21 m (87 in.) 2.77 m (109 in.) 612 mm (24.1 in.) age IIIA and EPA Tier 2/EU Stage II	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x ³ / ₄ in.) Cutting Edges, 17.5 R 25 L2 Tires, and 79-kg (175 lb.) Operator	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.) 60.6 L (16 gal.) EPA Interim Tier 4/EU Stage IIIB 4531 kg (9,990 lb.)	2.16 m (85 in.) 2.64 m (104 in.)	.) <i>EPA Tier 3/EU St</i> 0 4540 kg (10,010	2.21 m (87 in.) 2.77 m (109 in.) 612 mm (24.1 in.) age IIIA and EPA Tier 2/EU Stage II lb.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x ³ / ₄ in.) Cutting Edges, 17.5 R 25 L2 Tires, and 79-kg (175 lb.) Operator Front	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.) 60.6 L (16 gal.) EPA Interim Tier 4/EU Stage IIIB 4531 kg (9,990 lb.) 12 487 kg (27,530 lb.)	2.16 m (85 in.) 2.64 m (104 in.)	.) EPA Tier 3/EU Sta	2.21 m (87 in.) 2.77 m (109 in.) 612 mm (24.1 in.) age IIIA and EPA Tier 2/EU Stage II Ib.) 0 lb.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x ³ / ₄ in.) Cutting Edges, 17.5 R 25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.) 60.6 L (16 gal.) EPA Interim Tier 4/EU Stage IIIB 4531 kg (9,990 lb.)	2.16 m (85 in.) 2.64 m (104 in.)	.) <i>EPA Tier 3/EU St</i> a 4540 kg (10,010 11 843 kg (26,11	2.21 m (87 in.) 2.77 m (109 in.) 612 mm (24.1 in.) age IIIA and EPA Tier 2/EU Stage II Ib.) 0 lb.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x ³ / ₄ in.) Cutting Edges, 17.5 R 25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.) 60.6 L (16 gal.) <i>EPA Interim Tier 4/EU Stage IIIB</i> 4531 kg (9,990 lb.) 12 487 kg (27,530 lb.) 17 019 kg (37,520 lb.)	2.16 m (85 in.) 2.64 m (104 in.)	.) <i>EPA Tier 3/EU St</i> 4540 kg (10,010 11 843 kg (26,11 16 384 kg (36,12	2.21 m (87 in.) 2.77 m (109 in.) 612 mm (24.1 in.) <i>age IIIA and EPA Tier 2/EU Stage II</i> Ib.) 0 lb.) 0 lb.)	
Tires/Wheels Wheel Tread on Ground (front and rear) Overall Width (top of tires, front and rear) Ground Clearance (front axle, front and rear) Serviceability Refill Capacities Fuel Tank Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x ³ /s in.) Cutting Edges, 17.5 R 25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.) 60.6 L (16 gal.) <i>EPA Interim Tier 4/EU Stage IIIB</i> 4531 kg (9.990 lb.) 12 487 kg (27,530 lb.) 17 019 kg (37,520 lb.)	2.16 m (85 in.) 2.64 m (104 in.)	.) <i>EPA Tier 3/EU St</i> 4540 kg (10,010 11 843 kg (26,11 16 384 kg (36,12 5869 kg (12,940	2.21 m (87 in.) 2.77 m (109 in.) 612 mm (24.1 in.) 612 mm (24.1 in.) 0 lb.) 0 lb.) 0 lb.)	
Cooling System Engine Oil with Filter Transmission Fluid (refill) Differential Housing Tandem Housings (each) Circle Gearbox Hydraulic Reservoir Operating Weights With Full Fuel Tank, 4.27-m x 686-mm x 25-mm (14 ft. x 27 in. x 1.0 in.) Moldboard with 203-mm x 19-mm (8 in. x ³ / ₄ in.) Cutting Edges, 17.5 R 25 L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment Front	14.00-24 on 254-mm (10 in.) Rim 2.08 m (82 in.) 2.49 m (98 in.) 587 mm (23.1 in.) 416.4 L (110 gal.) 57.9 L (15.3 gal.) 28.0 L (7.4 gal.) 28.4 L (7.5 gal.) 37.9 L (10 gal.) 73.8 L (19.5 gal.) 5.7 L (1.5 gal.) 60.6 L (16 gal.) <i>EPA Interim Tier 4/EU Stage IIIB</i> 4531 kg (9,990 lb.) 12 487 kg (27,530 lb.) 17 019 kg (37,520 lb.)	2.16 m (85 in.) 2.64 m (104 in.)	.) <i>EPA Tier 3/EU St</i> 4540 kg (10,010 11 843 kg (26,11 16 384 kg (36,12	2.77 m (109 in.) 612 mm (24.1 in.) age IIIA and EPA Tier 2/EU Stage II Ib.) 0 Ib.) 0 Ib.) 0 Ib.) 9 Ib.)	

Option Weights	870G/GP	Option Weights (continued)	870G/GP
Moldboards with Through-Hardened Dura-Max		Tires (continued)	
Cutting Edge		14.00-R24, Radial, G2/L2 Snow	– 10.9 kg (– 24 lb.)
3.66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.)	– 126 kg (– 278 lb.)	17.5-R25, Radial, L2 General Purpose	0 kg (0 lb.)
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge		17.5-R25, Radial, G2/L2 Snow	43.5 kg (96 lb.)
and 16-mm (5/8 in.) hardware		17.5-R25, Radial, G3/L3 General Purpose	89.8 kg (198 lb.)
3.96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.)	– 72 kg (– 159 lb.)	550/65R25 XLD70 G3/L3 Radial, General Purpose	443.6 kg (978 lb.)
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge		Multi-Piece Rims	J. ,
and 16-mm (5/8 in.) hardware		254 mm x 610 mm (10 in. x 24 in.)	– 87.1 kg (– 192 lb.)
4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)	9.5 kg (21 lb.)	356 mm x 635 mm (14 in. x 25 in.)	0 kg (0 lb.)
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge		432 mm x 635 mm (17 in. x 25 in.)	54.4 kg (120 lb.)
and 16-mm (⁵ / ₈ in.) hardware		Fenders	- · · · · · · · · · · · · · · · · · · ·
4.88 m x 686 mm x 25 mm (16 ft. x 27 in. x 1 in.)	137 kg (302 lb.)	Front	76.7 kg (169 lb.)
with 203-mm x 19-mm (8 in. x $^{3}/_{4}$ in.) cutting edge		Rear	140.6 kg (310 lb.)
and 19-mm (³ / ₄ in.) hardware		Cab	1 1010 kg (5 10 151)
Extensions, 610 mm (2 ft.) (right or left)		Low with Opening Front and Side Windows	14.5 kg (32 lb.)
For Use with 686-mm (27 in.) Moldboards	120.2 kg (265 lb.)	Tall with Fixed Front and Side Windows	58.5 kg (129 lb.)
Overlay End Bits, Reversible (one pair)		With Opening Front and Side Windows	73 kg (161 lb.)
For 152-mm (6 in.) Cutting Edge	19.5 kg (43 lb.)	Premium Air-Suspension, Heated Seat with Adjustable	12.7 kg (28 lb.)
For 203-mm (8 in.) Cutting Edge	23.1 kg (51 lb.)	Arm- and Headrests	12.7 Kg (2010.)
Extended-Wear Circle Wear Inserts	19.5 kg (43 lb.)	Coolant Heater	4.1 kg (9 lb.)
Circle-Drive Slip Clutch	9.1 kg (20 lb.)	Fast-Fill Fuel System	13.6 kg (30 lb.)
Moldboard Impact-Absorption System	43.1 kg (95 lb.)	Quick Service	10.9 kg (24 lb.)
Ripper/Scarifier, Rear Mounted with Hitch and Ripper	1139 kg (2,510 lb.)	Sound-Absorption Package (machines equipped with	14.1 kg (31 lb.)
Shanks (3)		Tier 3/Stage IIIA and Tier 2/Stage II engines only)	14.1 kg (51 lb.)
Scarifier Shanks with Teeth (9 for rear ripper/scarifier)	68 kg (150 lb.)	Secondary Steering	26.3 kg (58 lb.)
Ripper Shanks and Teeth (2)	63 kg (139 lb.)	Beacon Bracket	8.2 kg (18 lb.)
Rear Counterweight with Integral Rear Hitch	727.1 kg (1,603 lb.)	Fire Extinguisher	J. ,
Rear Hitch	54.4 kg (120 lb.)		14.5 kg (32 lb.)
Push Block, Front	1338 kg (2,950 lb.)	Lighting Packages	
Scarifier		10 Halogen Lights	4.53 kg (10 lb.)
Front Mount with Teeth (5)	831.4 kg (1,833 lb.)	16 Halogen Lights	7.25 kg (16 lb.)
Mid-Mount with Teeth (11)	1481 kg (3,265 lb.)	18 Halogen Lights	8.2 kg (18 lb.)
Front Lift Group (Balderson-style)	762.9 kg (1,682 lb.)	High-Front Light Bar for Snowplowing	20 kg (44 lb.)
Tires		24- to 12-Volt, 30-Amp Converter	1.4 kg (3 lb.)
14.00-24, 12 PR G2	– 272.2 kg (– 600 lb.)	Auxiliary Hydraulic Control Valve Section and Controls	6.8 kg (15 lb.)
17.5-25, 12 PR G2/L2	– 157.9 kg (– 348 lb.)	Hydraulics For Front-Mounted Equipment	8.6 kg (19 lb.)
14.00-R24, Radial, G2/L2 General Purpose	– 51.7 kg (– 114 lb.)	Wipers/Washers, Lower-Front Windows	4.1 kg (9 lb.)
Machine Dimensions		Machine Dimensions (continued)	
A Height to Top of Cab	3.18 m (10 ft. 5 in.)	F Wheelbase	6.16 m (20 ft. 3 in.)
A ¹ Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)	G Overall Length	8.89 m (29 ft. 2 in.)
B Height to Top of Exhaust	3.13 m (10 ft. 3 in.)	H Overall Length with Scarifier	9.69 m (31 ft. 9 in.)
C Height to Top of Blade-Lift Cylinders	3.05 m (10 ft. 0 in.)	I Overall Length with Push Block and Ripper	9.99 m (32 ft. 9 in.)
D Tandem Axle Spacing	1.54 m (5 ft. 1 in.)	I ¹ Overall Length with Scarifier and Ripper	10.59 m (34 ft. 9 in.)
E Blade Base	2.53 m (8 ft. 4 in.)	For Overall Width see Tires/Wheels on page 34.	

