670G/GP

Engine	670G/GP		
Manufacturer and Model	John Deere PowerTech™ PSX 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech™ 6.8L
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.)	6.8L (414 cu. in.)
Net Power			
Gear 1	121 kW (162 hp)	118 kW (158 hp)	115 kW (154 hp)
Gear 2	125 kW (168 hp)	121 kW (162 hp)	120 kW (161 hp)
Gear 3	134 kW (180 hp)	129 kW (173 hp)	129 kW (173 hp)
Gear 4	143 kW (192 hp)	138 kW (185 hp)	132 kW (177 hp)
Gear 5	151 kW (203 hp)	148 kW (198 hp)	134 kW (179 hp)
Gear 6	155 kW (208 hp)	153 kW (205 hp)	138 kW (185 hp)
Gear 7	158 kW (212 hp)	153 kW (205 hp)	138 kW (185 hp)
Gear 8	164 kW (220 hp)	157 kW (210 hp)	138 kW (185 hp)
Net Peak Torque	1101 Nm (812 lbft.)	1124 Nm (829 lbft.)	848 Nm (625 lbft.)
Net Torque Rise	68%	77%	45%
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
Castlan			

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 117-L/min. (31 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	4.0 km/h (2.5 mph)
Shift Lever Position 2	5.6 km/h (3.5 mph)
Shift Lever Position 3	7.7 km/h (4.8 mph)
Shift Lever Position 4	10.9 km/h (6.8 mph)
Shift Lever Position 5	16.4 km/h (10.2 mph)
Shift Lever Position 6	23.2 km/h (14.4 mph)
Shift Lever Position 7	32.3 km/h (20.1 mph)
Shift Lever Position 8	45.5 km/h (28.3 mph)
Front Axle	Heavy-duty welded fabrication
Oscillation (total)	32 deg.
Wheel Lean Angle (each direction)	20 deg.
Differentials	Spiral bevel; hydraulically actuated, clutch type can be applied on-the-go; selectable manual or automatic differential lock
Steering (all models include steering wheel)	All-hydraulic power-frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side-slope stability; return-to-straight control included in Grade Pro 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	670G/GP
,	CLS), variable-displacement piston pump, O-ring face-seal fittings
Maximum Pump Flow	212 L/min. (56 gpm)
Maximum System Pressure	18 961 kPa (2,750 psi)
Pump Displacement	90 cm ³ (5.5 cu. in.)
Blade Function	
All-hydraulic, industry-standard lever placement of bla	de-function controls; includes float position; 7 discrete saddle positions
Blade Range	
Lift Above Ground	490 mm (19.3 in.)
Blade Side Shift (right or left)	683 mm (26.9 in.)
Pitch at Ground Line	
Forward	42 deg.
Back	5 deg.
Shoulder Reach Outside Wheels (frame straight, right or left)	2083 mm (6 ft. 10 in.)
Bank Cut Angle (right or left)	90 deg.
Productivity	
Blade Pull (maximum weight [21 228 kg (46,800 lb.)], 0.9 coefficient of traction)	12 800 kg (28,220 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	
Mainframe Type	Welded box construction
Type Width (minimum)	307 mm (12.1 in.)
Type Width (minimum) Height (minimum)	
Type Width (minimum) Height (minimum) Thickness	307 mm (12.1 in.) 307 mm (12.1 in.)
Type Width (minimum) Height (minimum) Thickness Side	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate	307 mm (12.1 in.) 307 mm (12.1 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm ³ (88 cu. in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar)	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm ³ (88 cu. in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm³ (88 cu. in.) 2245 cm³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatness	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ress, equipped with quick-change replaceable wear inserts
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatn Circle Diameter	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ress, equipped with quick-change replaceable wear inserts 1524 mm (60 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatn Circle Diameter Rotation	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.) couble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ress, equipped with quick-change replaceable wear inserts 1524 mm (60 in.) 360 deg.
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatn Circle Diameter Rotation Drive	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts 1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatn Circle Diameter Rotation Drive Circle Side Shift (right and left)	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.) couble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ress, equipped with quick-change replaceable wear inserts 1524 mm (60 in.) 360 deg.
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatness Welded construction, heat-treated, machined for flatness Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wear-	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts 1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatness Welded construction, heat-treated, machined for flatness 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	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts 1524 mm (60 in.) 360 deg. Hydraulic motor and worm gear with positive lock 787 mm (31 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatness Welded construction, heat-treated, machined for flatness 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	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts 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
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatness Welded construction, heat-treated, machined for flatness 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	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ress, equipped with quick-change replaceable wear inserts 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 3.66 m (12 ft. 0 in.) 610 mm (24 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatness Welded construction, heat-treated, machined for flatness 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)	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts 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 3.66 m (12 ft. 0 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatness Welded construction, heat-treated, machined for flatness 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	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ress, equipped with quick-change replaceable wear inserts 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 3.66 m (12 ft. 0 in.) 610 mm (24 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatness Welded construction, heat-treated, machined for flatness 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	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ress, equipped with quick-change replaceable wear inserts 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 3.66 m (12 ft. 0 in.) 610 mm (24 in.)
Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section Average Vertical Section at Saddle Draft Frame (drawbar) Welded box construction machined for flatness with d Circle Welded construction, heat-treated, machined for flatness Circle Diameter Rotation Drive Circle Side Shift (right and left) Moldboard High-strength, pre-stressed for higher strength, wearwear inserts and quick-adjust jackscrew system Length Height (measured along arc, including cutting edge) Thickness Cutting Edge Dura-Max [™] through-hardened steel edge	307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1445 cm ³ (88 cu. in.) 2245 cm ³ (137 cu. in.) 2245 cm ³ (137 cu. in.) ouble ball-and-socket pivot connection equipped with quick-change replaceable wear inserts ess, equipped with quick-change replaceable wear inserts 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 3.66 m (12 ft. 0 in.) 610 mm (24 in.) 22 mm (0.88 in.)

Scarifiers	670G/GP	
Scatters	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 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)	None standard (maximum 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 in.)
Operator Station		
Low-profile cab with ROPS (ISO 3471-2008) and FOPS	(ISO 3449-2005)	
Tires/Wheels		
	14.00-24 on 254-mm (10 in.) Rim	17.5-25 on 356-mm (14 in.) Rim
Wheel Tread on Ground (front and rear)	2.08 m (82 in.)	2.16 m (85 in.)
Overall Width (top of tires, front and rear)	2.49 m (98 in.)	2.64 m (104 in.)
Ground Clearance (front axle, front and rear)	587 mm (23.1 in.)	587 mm (23.1 in.)
Serviceability	507 mm (25.1 m.)	507 mm (25.1 m.)
Refill Capacities		
Fuel Tank	416.4 L (110 gal.)	
Cooling System (6.8L engine)	43.9 L (11.6 gal.)	
Engine Oil with Filter (6.8L engine)	23.8 L (6.3 gal.)	
Transmission Fluid (refill)	28.4 L (7.5 gal.)	
Differential Housing	37.9 L (10 gal.)	
Tandem Housings (each)	73.8 L (19.5 gal.)	
Circle Gearbox	5.7 L (1.5 gal.)	
Hydraulic Reservoir	60.6 L (16 gal.)	
Operating Weights	00.0 L (10 gal.)	
operating meights		
With Full Fuel Tank, 3.66-m x 610-mm x 22-mm (12 ft. x 24 in. x 0.88 in.) Moldboards with 152-mm x 16-mm		
x 24 in. x 0.88 in.) Moldboards with 152-mm x 16-mm (6 in. x $^{5}/_{8}$ in.) Cutting Edges, 14.00-24 Bias L2 Tires,		
x 24 in. x 0.88 in.) Moldboards with 152-mm x 16-mm	EPA Interim Tier 4/EU Stage IIIB	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
x 24 in. x 0.88 in.) Moldboards with 152-mm x 16-mm (6 in. x $^{5}/_{8}$ in.) Cutting Edges, 14.00-24 Bias L2 Tires,	4178 kg (9,210 lb.)	4191 kg (9,240 lb.)
x 24 in. x 0.88 in.) Moldboards with 152-mm x 16-mm (6 in. x ⁵ / ₈ in.) Cutting Edges, 14.00-24 Bias L2 Tires, and 79-kg (175 lb.) Operator Front Rear	4178 kg (9,210 lb.) 11 798 kg (26,010 lb.)	4191 kg (9,240 lb.) 11 149 kg (24,580 lb.)
x 24 in. x 0.88 in.) Moldboards with 152-mm x 16-mm (6 in. x ⁵ / ₈ in.) Cutting Edges, 14.00-24 Bias L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total	4178 kg (9,210 lb.)	4191 kg (9,240 lb.)
x 24 in. x 0.88 in.) Moldboards with 152-mm x 16-mm (6 in. x ⁵ /8 in.) Cutting Edges, 14.00-24 Bias L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment	4178 kg (9,210 lb.) 11 798 kg (26,010 lb.) 15 976 kg (35,220 lb.)	4191 kg (9,240 lb.) 11 149 kg (24,580 lb.) 15 340 kg (33,820 lb.)
x 24 in. x 0.88 in.) Moldboards with 152-mm x 16-mm (6 in. x ⁵ / ₈ in.) Cutting Edges, 14.00-24 Bias L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear	4178 kg (9,210 lb.) 11 798 kg (26,010 lb.) 15 976 kg (35,220 lb.) 5507 kg (12,140 lb.)	4191 kg (9,240 lb.) 11 149 kg (24,580 lb.) 15 340 kg (33,820 lb.) 5479 kg (12,080 lb.)
x 24 in. x 0.88 in.) Moldboards with 152-mm x 16-mm (6 in. x ⁵ / ₈ in.) Cutting Edges, 14.00-24 Bias L2 Tires, and 79-kg (175 lb.) Operator Front Rear Total Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment	4178 kg (9,210 lb.) 11 798 kg (26,010 lb.) 15 976 kg (35,220 lb.) 5507 kg (12,140 lb.) 13 698 kg (30,200 lb.)	4191 kg (9,240 lb.) 11 149 kg (24,580 lb.) 15 340 kg (33,820 lb.) 5479 kg (12,080 lb.) 12 887 kg (28,410 lb.)
x 24 in. x 0.88 in.) Moldboards with 152-mm x 16-mm (6 in. x ⁵ / ₈ in.) Cutting Edges, 14.00-24 Bias 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	4178 kg (9,210 lb.) 11 798 kg (26,010 lb.) 15 976 kg (35,220 lb.) 5507 kg (12,140 lb.)	4191 kg (9,240 lb.) 11 149 kg (24,580 lb.) 15 340 kg (33,820 lb.) 5479 kg (12,080 lb.)

Option Weights	670G/GP
Moldboards with Through-Hardened Dura-Max	0,00,01
Cutting Edge	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x ⁷ / ₈ in.)	45 kg (99 lb.)
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge	
and 16-mm ($5/8$ in.) hardware	
3.66 m x 686 mm x 25 mm (12 ft. x 27 in. x 1 in.)	126 kg (277 lb.)
with 203-mm x 19-mm (8 in. $x^{3}/4$ in.) cutting edge	120 kg (277 kbl)
and 16-mm (5/8 in.) hardware	
3.96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.)	180 kg (396 lb.)
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge	· · · · · · · · · · · · · · · · · · ·
and 16-mm ($5/8$ in.) hardware	
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ⁷ / ₈ in.)	105 kg (231 lb.)
with 152-mm x 16-mm (6 in. x ⁵ / ₈ in.) cutting edge	
and 16-mm ($5/8$ in.) hardware	
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ⁷ / ₈ in.)	157.4 kg (347 lb.)
with 203-mm x 19-mm (8 in. x $^{3}/_{4}$ in.) cutting edge	
and 16-mm (⁵ / ₈ in.) hardware	
4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)	251.3 kg (554 lb.)
with 203-mm x 19-mm (8 in. x ³ / ₄ in.) cutting edge	(,
and 16-mm (5/8 in.) hardware	
Extensions, 610 mm (2 ft.) (right or left)	
For Use with 610-mm (24 in.) Moldboards	115.7 kg (255 lb.)
For Use with 686-mm (27 in.) Moldboards	120.2 kg (265 lb.)
Overlay End Bits, Reversible (one pair)	
For 152-mm (6 in.) Cutting Edge	19.5 kg (43 lb.)
For 203-mm (8 in.) Cutting Edge	23.1 kg (51 lb.)
Extended-Wear Circle Wear Inserts	19.5 kg (43 lb.)
Circle-Drive Slip Clutch	9.1 kg (20 lb.)
Moldboard Impact-Absorption System	43.1 kg (95 lb.)
Ripper/Scarifier, Rear Mounted with Hitch and Ripper	1139 kg (2,510 lb.)
Shanks (3)	
Scarifier Shanks with Teeth (9 for rear ripper/scarifier)	68 kg (150 lb.)
Ripper Shanks and Teeth (2)	63 kg (139 lb.)
Rear Counterweight with Integral Rear Hitch	727.1 kg (1,603 lb.)
Rear Hitch	54.4 kg (120 lb.)
Push Block, Front	1338 kg (2,950 lb.)
Scarifier	
Front Mount with Teeth (5)	831.4 kg (1,833 lb.)
Mid-Mount with Teeth (11)	1481 kg (3,265 lb.)
Front Lift Group (Balderson-style)	762.9 kg (1,682 lb.)
Machine Dimensions	
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
A ^I Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)
B Height to Top of Exhaust (6.8L engine)	3.09 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)	670G/GP
Tires	
14.00-24, 12 PR G2	0 kg (0 lb.)
17.5-25, 12 PR G2/L2	114.3 kg (252 lb.)
14.00-R24, Radial, G2/L2 General Purpose	220.4 kg (486 lb.)
14.00-R24, Radial, G2/L2 Snow	261.3 kg (576 lb.)
17.5-R25, Radial, L2 General Purpose	272.2 kg (600 lb.)
17.5-R25, Radial, G2/L2 Snow	315.7 kg (696 lb.)
17.5-R25, Radial, G3/L3 General Purpose	362.0 kg (798 lb.)
One-Piece Rims	
229 mm x 610 mm (9 in. x 24 in.)	0 kg (0 lb.)
330 mm x 635 mm (13 in. x 25 in.)	65.3 kg (144 lb.)
Multi-Piece Rims	j, ,
254 mm x 610 mm (10 in. x 24 in.)	179.6 kg (396 lb.)
356 mm x 635 mm (14 in. x 25 in.)	266.7 kg (588 lb.)
Fenders	
Front	76.7 kg (169 lb.)
Rear	140.6 kg (310 lb.)
Cab	
Low with Opening Front and Side Windows	14.5 kg (32 lb.)
Tall with Fixed Front and Openable Side Windows	58.5 kg (129 lb.)
With Opening Front and Openable Side Windows	73.0 kg (161 lb.)
Premium Air-Suspension, Heated Seat with Adjustable	12.7 kg (28 lb.)
Arm- and Headrests	3.
Coolant Heater	4.1 kg (9 lb.)
Fast-Fill Fuel System	13.6 kg (30 lb.)
Quick Service	10.9 kg (24 lb.)
Sound-Absorption Package (machines equipped with Tier 3/Stage IIIA and Tier 2/Stage II engines only)	14.1 kg (31 lb.)
Secondary Steering	26.3 kg (58 lb.)
Beacon Bracket	8.2 kg (18 lb.)
Fire Extinguisher	14.5 kg (32 lb.)
Lighting Packages	3
10 Halogen Lights	4.53 kg (10 lb.)
16 Halogen Lights	7.25 kg (16 lb.)
18 Halogen Lights	8.2 kg (18 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
24- to 12-Volt, 30-Amp Converter	1.4 kg (3 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	6.8 kg (15 lb.)
Hydraulics For Front-Mounted Equipment	8.6 kg (19 lb.)
Wipers/Washers, Lower-Front Windows	4.1 kg (9 lb.)
Machine Dimensions (continued)	
F Wheelbase	6.16 m (20 ft. 3 in.)
G Overall Length	8.89 m (29 ft. 2 in.)
H Overall Length with Scarifier	9.69 m (31 ft. 9 in.)
I Overall Length with Push Block and Ripper	9.99 m (32 ft. 9 in.)
I ^I Overall Length with Scarifier and Ripper	10.59 m (34 ft. 9 in.)
For Overall Width see Tires/Wheels on page 18.	

