## 770G/GP

Powertrain

Engine	770G/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	127 kW (170 hp)	123 kW (165 hp)	123 kW (165 hp)
Gear 2	129 kW (173 hp)	125 kW (167 hp)	125 kW (167 hp)
Gear 3	141 kW (189 hp)	137 kW (184 hp)	137 kW (184 hp)
Gear 4	152 kW (204 hp)	148 kW (198 hp)	148 kW (198 hp)
Gear 5	163 kW (219 hp)	157 kW (210 hp)	157 kW (210 hp)
Gear 6	175 kW (235 hp)	164 kW (220 hp)	164 kW (220 hp)
Gear 7	180 kW (241 hp)	168 kW (225 hp)	168 kW (225 hp)
Gear 8	183 kW (245 hp)	172 kW (230 hp)	172 kW (230 hp)
Net Peak Torque	1235 Nm (911 lbft.)	1227 Nm (905 lbft.)	1227 Nm (905 lbft.)
Net Torque Rise	57%	63%	63%
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			

77/00

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 (-3

-37 deg. C (-34 deg. F)

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	770G/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 <sup>3</sup> (5.5 cu. in.)
Blade Function	
	de-function controls; includes float position; 7 discrete saddle positions
Blade Range	a function controls, metades noar position, 7 also etc sadare positions
Lift Above Ground	490 mm (19.3 in.)
Blade Side Shift (right or left)	683 mm (26.9 in.)
Pitch at Ground Line	605 mm (20.5 m)
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 [21 772 kg (48,000 lb.)], 0.9 coefficient of traction)	13 150 kg (28,990 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
	Welded box construction 307 mm (12.1 in.)
Туре	Welded box construction
Type Width (minimum)	Welded box construction 307 mm (12.1 in.) 307 mm (12.1 in.)
Type Width (minimum) Height (minimum) Thickness Side	Welded box construction 307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.)
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Type Width (minimum) Height (minimum) Thickness Side Top and Bottom Plate Modulus Minimum Vertical Section	Welded box construction 307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm <sup>3</sup> (108 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 307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm <sup>3</sup> (108 cu. in.)
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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 de 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	Welded box construction 307 mm (12.1 in.) 307 mm (12.1 in.) 16 mm (0.63 in.) 23 mm (0.89 in.) 1770 cm <sup>3</sup> (108 cu. in.) 2245 cm <sup>3</sup> (108 cu. in.) 2245 cm <sup>3</sup> (137 cu. in.) cuble 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.)
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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 detected         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 <sup>™</sup> through-hardened steel edge	Welded box construction         307 mm (12.1 in.)         307 mm (12.1 in.)         16 mm (0.63 in.)         23 mm (0.89 in.)         1770 cm <sup>3</sup> (108 cu. in.)         2245 cm <sup>3</sup> (137 cu. in.)         couble 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	770G/GP		
	Front	Mid	-mount
Туре	V-type toolbar with manual 2-pitch hydraulic float	positions, with Rad tool lic f	ial linkage, with NeverGrease™ pin joints; V-type bar with manual 3-pitch positions, with hydrau- loat
Width of Cut	1.20 m (4 ft. 0 in.)	1.19	9 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	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	Scal	rifier
Width of Cut	2.21 m (7 ft. 3 in.)	2.18	3 m (7 ft. 2 in.)
Number of Shanks/Teeth	3 (maximum capacity 5)	Nor	e 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	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 (1	4 in.) Rim 550/65R25 on 432-mm (17 in.) Rim
Wheel Tread on Ground (front and rear)	2.08 m (82 in.)	2.16 m (85 in.)	2.21 m (87 in.)
Overall Width (top of tires, front and rear)	2.49 m (98 in.)	2.64 m (104 in.)	2.77 m (109 in.)
Ground Clearance (front axle, front and rear)	587 mm (23.1 in.)	587 mm (23.1 in.)	612 mm (24.1 in.)
Serviceability			
Refill Capacities			
Fuel Tank	416.4 L (110 gal.)		
Cooling System	57.9 L (15.3 gal.)		
Engine Oil with Filter	28.0 L (7.4 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			
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 (6 in. x <sup>5</sup> / <sub>8</sub> in.) Cutting Edges, 14R24 L2	EDA Interim Tier ///EU Stars ///D	<b>CD A</b>	Tier 2/ELL Steep IIIA and EDA Tier 2/ELL Steep II
Tires, and 79-kg (175 lb.) Operator	EPA Interim Tier 4/EU Stage IIIB		Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Front	4305 kg (9,490 lb.)		4 kg (9,510 lb.)
Rear	12 084 kg (26,640 lb.)		+40 kg (25,220 lb.)
Total	16 388 kg (36,130 lb.)	157	753 kg (34,730 lb.)
Typical Operating Weight with Front Push Block, Rear Ripper/Scarifier, and Other Equipment			
Front	5570 kg (12,280 lb.)		5 kg (12,358 lb.)
Rear	13 825 kg (30,480 lb.)		75 kg (29,047 lb.)
Total	19 396 kg (42,760 lb.)		781 kg (41,405 lb.)
Maximum Operating Weight	21 772 kg (48,000 lb.)	217	772 kg (48,000 lb.)

Option Weights	770G/GP
Moldboards with Through-Hardened Dura-Max	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Cutting Edge	
3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)	45 kg (99 lb.)
with 203-mm x 19-mm (8 in. x $3/4$ in.) cutting edge	5. ,
and 16-mm ( <sup>5</sup> / <sub>8</sub> 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 <sup>3</sup> / <sub>4</sub> in.) cutting edge	
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 <sup>3</sup> / <sub>4</sub> in.) cutting edge	
and 16-mm (⁵/₀ in.) hardware	
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.)	105 kg (231 lb.)
with 152-mm x 16-mm (6 in. x <sup>5</sup> / <sub>8</sub> in.) cutting edge	
and 16-mm ( $5/8$ in.) hardware	157 / 1/2 / 2/17 lb )
4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x <sup>7</sup> / <sub>8</sub> in.) with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge	157.4 kg (347 lb.)
and 16-mm ( $5/_{\theta}$ 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 <sup>3</sup> / <sub>4</sub> in.) cutting edge	201.0 kg (00 1 lb.)
and 16-mm ( $5/8$ in.) hardware	
4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)	260.8 kg (575 lb.)
with 203-mm x 19-mm (8 in. x <sup>3</sup> / <sub>4</sub> in.) cutting edge	5, ,
and 19-mm ( <sup>3</sup> / <sub>4</sub> in.) hardware	
Extensions, 610 mm (2 ft.) (right or left)	
For Use with 610-mm (24 in.) Moldboards	98.9 kg (218 lb.)
For Use with 686-mm (27 in.) Moldboards	103.4 kg (228 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	001 / kg (1 000 lb )
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) Machine Dimensions	762.9 kg (1,682 lb.)
A Height to Top of Cab	3.18 m (10 ft. 5 in.)
A Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)
B Height to Top of Exhaust	3.13 m (10 ft. 3 in.)
C Height to Top of Blade-Lift Cylinders	3.05 m (10 ft. 0 in.)
D Tandem Axle Spacing	1.54 m (5 ft. 1 in.)
E Blade Base	2.57 m (8 ft. 5 in.)

Option Weights (continued)	770G/GP
Tires	
14.00-24, 12 PR G2	– 220.4 kg (– 486 lb.)
17.5-25, 12 PR G2/L2	– 106.1 kg (– 234 lb.)
14.00-R24, Radial, G2/L2 General Purpose	0 kg (0 lb.)
14.00-R24, Radial, G2/L2 Snow	40.8 kg (90 lb.)
17.5-R25, Radial, L2 General Purpose	51.7 kg (114 lb.)
17.5-R25, Radial, G2/L2 Snow	95.3 kg (210 lb.)
17.5-R25, Radial, G3/L3 General Purpose	141.5 kg (312 lb.)
550/65R25 XLD70 G3/L3 Radial, General Purpose	495.3 kg (1,092 lb.)
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	
254 mm x 610 mm (10 in. x 24 in.)	179.6 kg (396 lb.)
356 mm x 635 mm (14 in. x 25 in.)	266.7 kg (588 lb.)
432 mm x 635 mm (17 in. x 25 in.)	321.1 kg (708 lb.)
Fenders	
Front	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 Side Windows	73 kg (161 lb.)
Deluxe Cloth, Air-Suspension Seat with Adjustable Arm-	12.7 kg (28 lb.)
and Headrests	
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	14.1 kg (31 lb.)
Tier 3/Stage IIIA and Tier 2/Stage II engines only)	26.2 kg (E0.lb.)
Secondary Steering	26.3 kg (58 lb.)
Beacon Bracket	8.2 kg (18 lb.)
Fire Extinguisher	14.5 kg (32 lb.)
Lighting Packages 10 Halogen Lights	(10 lb)
16 Halogen Lights	4.53 kg (10 lb.) 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 <sup>I</sup> Overall Length with Scarifier and Ripper	10.59 m (34 ft. 9 in.)
For Overall Width see Tires/Wheels on page 26.	. ,

