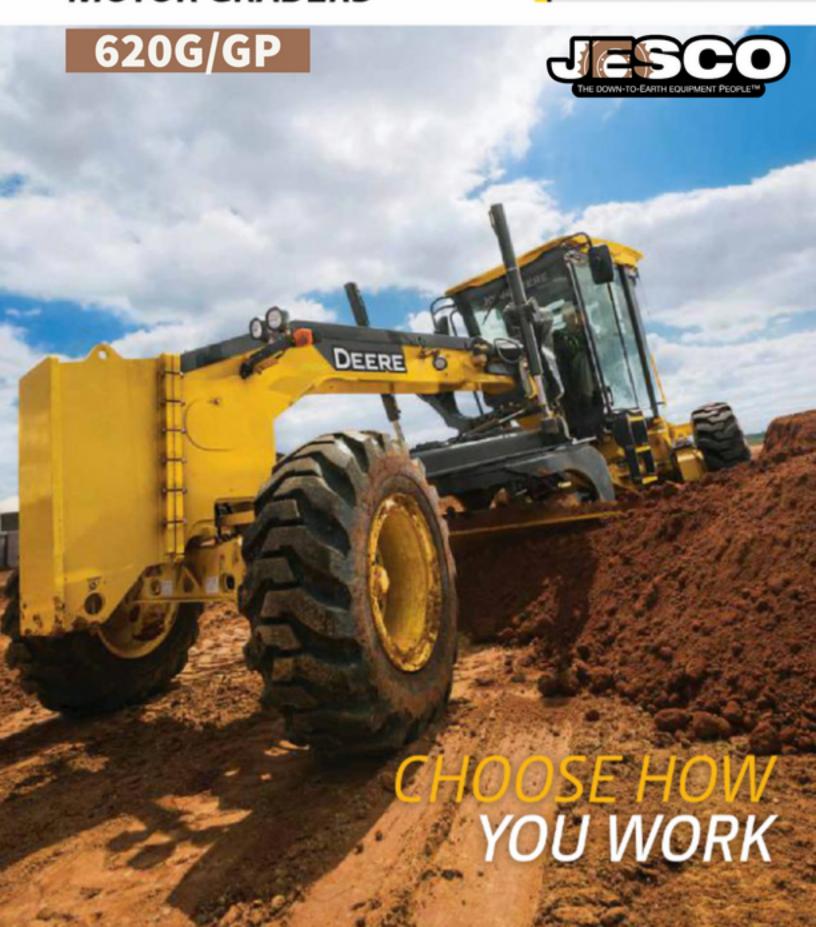
G-SERIES 4WD MOTOR GRADERS







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	620G/GP				
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/EU Stage V	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II		
Cylinders	6	6	6		
Displacement	6.8L (414 cu. in.)	6.8L (414 cu. in.)	6.8L (414 cu. in.)		
Net Engine Power					
Gear 1	112 kW (150 hp)	112 kW (150 hp)	112 kW (150 hp)		
Gear 2	123 kW (165 hp)	123 kW (165 hp)	123 kW (165 hp)		
Gear 3	134 kW (180 hp)	130 kW (175 hp)	130 kW (175 hp)		
Gear 4	142 kW (190 hp)	134 kW (180 hp)	134 kW (180 hp)		
Gear 5	149 kW (200 hp)	142 kW (190 hp)	138 kW (185 hp)		
Gear 6	153 kW (205 hp)	146 kW (195 hp)	138 kW (185 hp)		
Gear 7	157 kW (210 hp)	149 kW (200 hp)	138 kW (185 hp)		
Gear 8	160 kW (215 hp)	149 kW (200 hp)	138 kW (185 hp)		
Net Peak Torque	1005 Nm (750 lbft.)	915 Nm (682 lbft.)	831 Nm (620 lbft.)		
Net Torque Rise	40%	37%	44%		
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled		
Lubrication	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler		
Air Cleaner With Restriction Indicator	Dual element, dry	Dual element, dry	Dual element, dry		
Cooling	Dual cicincite, at y	Budi cicincite, di y	Budi cicinent, dry		
Engine Coolant, Extended Life, Rating	_37 dea C (_34 dea F)				
Powertrain	37 deg. e (34 deg. 17				
Transmission	Direct-drive John Deere PowerShift Plus™	, modulated shift-on-the-go, Event-Based	Shifting (FRS), inching pedal: independent		
Transmission		ation and cooling system with 117-L/min. (3	=		
Gears	transmission reservoir with separate mit	ation and cooming system with 117-E/11111. (2	or gpini, gear pamp		
Forward	8				
Reverse	8				
Maximum Travel Speeds	No tire slip at 2,180 rpm, 14.0-R24 tires		No tire slip at 2,180 rpm, 14.0-R24 tires		
Gear 1	4.0 km/h (2.5 mph)	Gear 5	16.4 km/h (10.2 mph)		
Gear 2	5.6 km/h (3.5 mph)	Gear 6	23.2 km/h (14.4 mph)		
Gear 3	7.7 km/h (4.8 mph)	Gear 7	32.3 km/h (20.1 mph)		
Gear 4	10.9 km/h (6.8 mph)	Gear 8	45.5 km/h (28.3 mph)		
Front Axle	Heavy-duty welded fabrication	Geal o	43.3 Kill/ II (20.3 IIIpII)		
Oscillation (total)	32 deg.				
Wheel Lean Angle (each direction)	20 deg.				
Differentials	<u> </u>	h type can be applied on-the-go; selectabl	a manual or automatic differential lock		
Steering (all models include		r maneuverability and productivity; crab si			
steering wheel)	7.21 m (284 in.) (23 ft. 8 in.)	de-slope stability; return-to-straight cont	roi included in Grade Pro (GP) option		
Turning Radius (front steer and	7.21 m (284 in.) (23 ft. 8 in.)				
articulation)	22 d				
Articulation (both right and left)	22 deg.				
Final Drives	Inboard-mounted planetary sealed in cod				
Brakes		nultiple wet-disc brakes sealed in pressuriz	ea, coolea, filterea oli; both independent		
D: IC I DI	systems effective on all 4 tandem wheels		1 Ch 1 1 h: 1: (100 3/10)		
Primary and Secondary Brakes		m pivot, self-adjusting, sealed in cooled an			
Parking Brake	Automatically spring applied, hydraulical	ly released, oil cooled, self-adjusting (ISO 3	345U)		
Hydraulics		, (DCLC)			
Type		ad-sensing (PCLS), variable-displacement _l	piston pump		
Maximum Pump Flow	212 L/min. (56 gpm)				
Maximum System Pressure	18 961 kPa (2,750 psi)				
Pump Displacement	90 cm ³ (5.5 cu. in.)				





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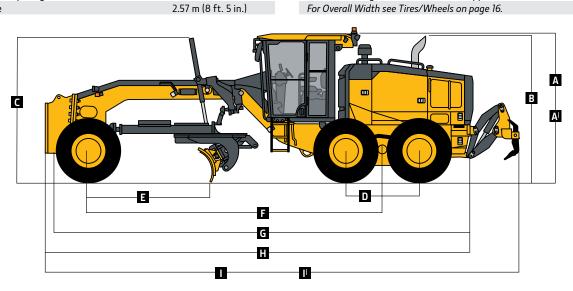
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Blade Function	620G/GP	
All-hydraulic, industry-standard lever placer	ment of blade-function controls; includes float position; 7	discrete saddle positions
Blade Range		
Lift Above Ground	490 mm (19.3 in.)	
Blade Side Shift (right or left)	683 mm (26.9 in.)	
Pitch at Ground Line		
Forward	42 deg.	
Back	5 deg.	
Shoulder Reach Outside Wheels (frame straight, right or left)	2083 mm (82.0 in.) (6 ft. 10 in.)	
Bank Cut Angle (right or left)	90 deg.	
Blade Pull		
At Maximum Operating Weight	14 091 kg (31,066 lb.)	
Electrical		
Solid-state load center and sealed-switch		
module	EPA Final Tier 4/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	950 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	Driving lights; 2 high- and 2 low-beam halogen headligh and hazard warning lights	nts; front and rear LED turn signals and marker lights; LED brake
Mainframe		
Type	Welded box construction	
Width (minimum)	307 mm (12.1 in.)	
Height (minimum)	307 mm (12.1 in.)	
Thickness		
Side	16 mm (0.63 in.)	
Top and Bottom Plate	23 mm (0.89 in.)	
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 flatr	ness and double ball-and-socket pivot connection	
Circle		
Welded construction, heat-treated, and ma-	chined 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		12
	ngth; wear-resistant, high-carbon steel and reversible end	bits; blade side-shift wear system includes quick-change
Base Length	3.66 m (144 in.) (12 ft. 0 in.)	
Height (measured along arc, including cutting edge)	610 mm (24 in.)	
Thickness	22 mm (0.88 in.)	



Cutting Edge	620G/GP			
Dura-Max™ through-hardened steel edge				
Thickness	16 mm (0.62 in.)			
Width	152 mm (6 in.)			
Scarifiers				
	Front		Mid-mount	
Туре	V-type toolbar with 2-pitch positions a	nd hydraulic float	Radial linkage, with 3-pitch positions a	n NeverGrease™ pin joints; V-type manua and hydraulic float
Width of Cut	1.20 m (48 in.) (4 ft. 0 in.)		1.19 m (46.7 in.) (3 f	ft. 11 in.)
Number of Shanks/Teeth	5 (maximum capacity 9)		11	
Lift Above Ground	589 mm (23.2 in.)		335 mm (13.2 in.)	
Maximum Depth	335 mm (13.2 in.)		325 mm (12.8 in.)	
Shank				
Spacing	146 mm (5.75 in.)		117 mm (4.6 in.)	
Size	25 x 76 mm (1 x 3 in.)		25 x 76 mm (1 x 3 ir	n.)
Front Lift Group (Balderson-style)				
Parallel linkage, mechanical pins, and hydraul Lift	ic float			
Above Ground (top of tube)	1864 mm (73.4 in.)			
Range	988 mm (38.9 in.)			
Rear Ripper/Scarifier	וווו כ.טכן ווווו סטכ			
Parallel linkage, with NeverGrease pin joints,	hydraulic float, and integrated hitch			
i araner ilikage, with Neverdrease pili joilits,	Ripper		Scarifier	
Width of Cut	2.21 m (87.2 in.) (7 ft. 3 in.)		2.18 m (86 in.) (7 ft	: 2 in 1
Number of Shanks/Teeth	3 (maximum capacity 5)			
Lift Above Ground	602 mm (23.7 in.)		810 mm (31.9 in.)	aximum capacity 9)
Maximum Depth	426 mm (16.8 in.)		323 mm (12.7 in.)	
Force	720 HIIII (10.0 HI.)		(.ווו (וצ./ וווווו כאכ	
	9 303 kg (30 E09 lb)			
Penetration	9,302 kg (20,508 lb.) 11,253 kg (24,808 lb.)		_	
Pry-Out Shank Size	61.5 x 133 mm (2.42 x 5.25 in.)		– 25 x 76 mm (1 x 3 in	
	וווווו (בנו x כ.ל.ע (2.42 X ב.וט III.)		23 X 70 IIIIII (1 X 3 In	1.]
Operator Station Low-profile cab with ROPS (ISO 3471-2008) a	nd EODS (ISO 3/4/0 200E)			
Tires/Wheels	ווע ו טרט (בעט -445-2005)			
THES/ WHEELS	13x24 on 254-mm (10 in.) Rim	14R24 on 254-mm	(10 in) Dim	17.5R25 on 356-mm (14 in.) Rim
Wheel Tread on Ground	2.08 m (82 in.)	2.08 m (82.0 in.)	(10 III.) KIIII	2.16 m (85.0 in.)
Overall Width	2.49 m (98 in.)	2.49 m (98.0 in.)		2.64 m (104.0 in.)
Ground Clearance (front axle)	2.49 m (98 in.) 557 mm (21.9 in.)	587 mm (23.1 in.)		587 mm (23.1 in.)
	ווווו נבוד וווווו זככ וווו. ז	(.וווווו /טכ (בב) ווווווו /טכ		JO7 IIIII (ZJ.I III.)
Serviceability Refill Capacities	EPA Final Tier 4/EU Stage V		EDA Tion 2/EII C+	ge IIIA and EPA Tier 2/EU Stage II
Fuel Tank	416.5 L (110 gal.)		303 L (80 gal.)	je ilih ullu EFA Tiel Z/EU Stage II
Diesel Exhaust Fluid (DEF) Tank	22.5 L (6 gal.)			
			— 44.0 L (11.6 gal.)	
Cooling System	51.0 L (13.5 gal.)			
Engine Oil With Filter	31.5 L (8.3 gal.)		26.0 L (6.9 gal.)	
Transmission Fluid	28.4 L (7.5 gal.)		28.4 L (7.5 gal.)	
Differential Housing	38.0 L (10 gal.)		38.0 L (10 gal.)	
Tandem Housings (each)	74.0 L (19.5 gal.)		74.0 L (19.5 gal.)	
Circle Gearbox	5.7 L (1.5 gal.)		5.7 L (1.5 gal.)	
Hydraulic Reservoir	60.5 L (16 gal.)		53.0 L (14 gal.)	
Operating Weights				
With Full Fuel Tank, 3.66-m x 610-mm x				
22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard				
With 152-mm x 16-mm (6 in. x % in.) Cutting				
Edges, 14-24 Bias L2 Tires, and 79-kg (175 lb.)	FDA Final Tion 4/FILS+ace 1/		FDA Tion 3/EII C+-	and EDA Tion 3/ELL Stage II
Operator	EPA Final Tier 4/EU Stage V			ge IIIA and EPA Tier 2/EU Stage II *
Front	4193 kg (9,243 lb.)		4222 kg (9,308 lb.)	
Rear	11 577 kg (25,523 lb.) 15 770 kg (34,767 lb.)		10 681 kg (23,548 ll 14 904 kg (32,857 l	
Total Typical Operating Weight With Front Push Block, Rear Ripper/Scarifier, and Other	ו.טו אסיי, פו אט איז כו.)		14 304 kg (32,85/ I	u.j
Equipment				
			50061 (33.335 H.)	
• •	4940 kg (10.890 lb.)		5096 kg 111 735 lb i	
Front	4940 kg (10,890 lb.)		5096 kg (11,235 lb.)	
Front Rear	13 386 kg (29,510 lb.)		12 439 kg (27,423 lb	o.)
Front Rear Total	13 386 kg (29,510 lb.) 18 325 kg (40,400 lb.)		12 439 kg (27,423 lb 17 535 kg (38,658 lb	b.)
Front Rear	13 386 kg (29,510 lb.)		12 439 kg (27,423 lb	b.)

	tion Weights	620G/GP
Mo	oldboards With Through-Hardened Dura-Max	
Cu	tting Edge	
	3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x ¾ in.)	0 kg (0 lb.)
	with 152-mm x 16-mm (6 in. x ¾ in.) cutting edge	
	and 16-mm (⅓ in.) hardware	
	3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x % in.)	45 kg (99 lb.)
	with 203-mm x 19-mm (8 in. x $\frac{3}{4}$ in.) cutting edge	
	and 16-mm (⅓ in.) hardware	
	4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x ¾ in.)	105 kg (231 lb.)
	with 152-mm x 16-mm (6 in. x $\%$ in.) cutting edge	
	and 16-mm (⅓ in.) hardware	
	4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x % in.)	157.4 kg (347 lb.)
	with 203-mm x 19-mm (8 in. x $\frac{3}{4}$ in.) cutting edge	
	and 16-mm (⅓ in.) hardware	
	tensions, 610 mm (2 ft.) (right or left)	
	For Use With 610-mm (24 in.) Moldboards	116 kg (255 lb.)
	erlay 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.)
	cle-Drive Slip Clutch	9 kg (20 lb.)
	cle	
	Standard	0 kg (0 lb.)
	Premium	289 kg (638 lb.)
	oldboard Impact-Absorption System	43 kg (95 lb.)
	oper, 3 Shank, No Scarifier	1052 kg (2,319 lb.)
	oper/Scarifier, Rear Mounted With Hitch and Ripper	1139 kg (2,510 lb.)
	anks (3)	601 (750 H)
	arifier Shanks With Teeth (9 for rear ripper/scarifier)	68 kg (150 lb.)
	ar Counterweight With Integral Rear Hitch	727 kg (1,603 lb.)
	ar Hitch	54.4 kg (120 lb.)
	sh Block, Front	907 kg (2,000 lb.)
	arifier	
	Front Mount With Teeth (5)	831 kg (1,833 lb.)
	Mid-Mount With Teeth (11)	1481 kg (3,265 lb.)
	ont Lift Group (Balderson-style)	763 kg (1,682 lb.)
	achine Dimensions	210 (205: 5:)
	Height to Top of Cab	3.18 m (10 ft. 5 in.)
	Height to Top of Full-Height Cab	3.40 m (11 ft. 2 in.)
В	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.)
Ε	Blade Base	2.57 m (8 ft. 5 in.)

Option Weights (continued)	620G/GP
Tires	/ / / /
13.00-24, 12 PR G2	–79 kg (–174 lb.)
14.00-24, 12 PR G2	0 kg (0 lb.)
17.5-25, 12 PR G2/L2	114 kg (252 lb.)
14.00-R24, Radial, G2/L2 General Purpose	220 kg (486 lb.)
14.00-R24, Radial, G2/L2 Snow	261 kg (576 lb.)
17.5-R25, Radial, L2 General Purpose	272 kg (600 lb.)
17.5-R25, Radial, G2/L2 Snow	316 kg (696 lb.)
17.5-R25, Radial, G3/L3 General Purpose	362 kg (798 lb.)
1-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 kg (144 lb.)
Multi-Piece Rims	
254 mm x 610 mm (10 in. x 24 in.)	180 kg (396 lb.)
356 mm x 635 mm (14 in. x 25 in.)	267 kg (588 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	J
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)	J., ,
Secondary Steering	26 kg (58 lb.)
Beacon Bracket	8 kg (18 lb.)
Fire Extinguisher	14.5 kg (32 lb.)
Lighting Packages	g (52 15.)
10 Halogen Lights	4.5 kg (10 lb.)
18 Halogen Lights	8 kg (18 lb.)
18 LED Lights	7 kg (16 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	7 kg (15 lb.)
Hydraulics for Front-Mounted Equipment	9 kg (19 lb.)
Machine Dimensions (continued)	ו.טו כון אח כ
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.)
3	9.99 m (32 ft. 9 in.)
I Overall Length With Scarifier and Ripper	10.59 m (34 ft. 9 in.)







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Engine	670G/GP				
Manufacturer and Model	John Deere PowerTech™ PSS 9.0L	John Deere PowerTech™ Plus 9.0L	John Deere PowerTech™ 9.0L		
Non-Road Emission Standard	EPA Final Tier 4/EU Stage V	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 Engine Power					
Gear 1	134 kW (180 hp)	134 kW (180 hp)	134 kW (180 hp)		
Gear 2	142 kW (190 hp)	142 kW (190 hp)	142 kW (190 hp)		
Gear 3	153 kW (205 hp)	149 kW (200 hp)	149 kW (200 hp)		
Gear 4	157 kW (210 hp)	153 kW (205 hp)	153 kW (205 hp)		
Gear 5	164 kW (220 hp)	157 kW (210 hp)	157 kW (210 hp)		
Gear 6	168 kW (225 hp)	164 kW (220 hp)	164 kW (220 hp)		
Gear 7	172 kW (230 hp)	168 kW (225 hp)	168 kW (225 hp)		
Gear 8	175 kW (235 hp)	172 kW (230 hp)	172 kW (230 hp)		
Net Peak Torque	1225 Nm (913 lbft.)	1196 Nm (892 lbft.)	1196 Nm (892 lbft.)		
Net Torque Rise	56%	56%	56%		
Aspiration	Series turbocharged, charge-air cooled	Turbocharged, charge-air cooled	Turbocharged, charge-air cooled		
Lubrication	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler		
Air Cleaner With Restriction Indicator	Dual element, dry	Dual element, dry	Dual element, dry		
Cooling	Buar cicinent, ary	Budi cicinciit, di y	Buai cicincit, ary		
Engine Coolant, Extended Life, Rating	–37 deg. C (–34 deg. F)				
Powertrain	37 deg. e (34 deg. 17				
Transmission	Direct-drive John Deere PowerShift Plus™	, modulated shift-on-the-go, Event-Based !	Shifting (FRS), inching pedal: independent		
Transmission		ation and cooling system with 117-L/min. (3	= = :		
Gears	transmission reservoir with separate mit	ation and cooming system with 117-2711111. (2	or gpini, gear painip		
Forward	8				
Reverse	8				
Maximum Travel Speeds	No tire slip at 2,180 rpm, 14.0-R24 tires		No tire slip at 2,180 rpm, 14.0-R24 tires		
Gear 1	4.0 km/h (2.5 mph)	Gear 5	16.4 km/h (10.2 mph)		
Gear 2	5.6 km/h (3.5 mph)	Gear 6	23.2 km/h (14.4 mph)		
Gear 3	7.7 km/h (4.8 mph)	Gear 7	32.3 km/h (20.1 mph)		
Gear 4	10.9 km/h (6.8 mph)	Gear 8	45.5 km/h (28.3 mph)		
Front Axle	Heavy-duty welded fabrication	Geal o	45.5 KIII/II (20.5 IIIpII)		
Oscillation (total)	32 deg.				
	20 deg.				
Wheel Lean Angle (each direction) Differentials	<u> </u>	h type can be applied on-the-go; selectabl	le manual or automatic differential lock		
Steering (all models include		r maneuverability and productivity; crab st			
steering wheel)	7.21 m (284 in.) (23 ft. 8 in.)	de-slope stability; return-to-straight cont	roi included in Grade Pro (GP) option		
Turning Radius (front steer and	7.21 m (284 in.) (23 ft. 8 in.)				
articulation)	22 d				
Articulation (both right and left)	22 deg.				
Final Drives	Inboard-mounted planetary sealed in cod				
Brakes		nultiple wet-disc brakes sealed in pressuriz	zea, coolea, filterea oli; both independent		
Drimany and Case - J D1	systems effective on all 4 tandem wheels	s	d filtered ail multi di (ISO 3450)		
Primary and Secondary Brakes		m pivot, self-adjusting, sealed in cooled an			
Parking Brake	Automatically spring applied, hydraulical	ly released, oil cooled, self-adjusting (ISO 3	3450)		
Hydraulics T		1 · (DCLC) · · · · · ·	· ,		
Type		ad-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.)				



22 mm (0.88 in.)



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cutting edge) Thickness

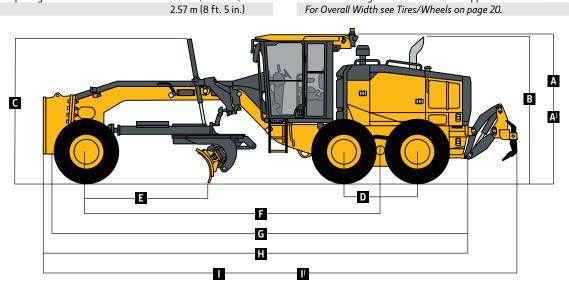
Blade Function All-hydraulic, industry-standard lever placement of blade-function controls; includes float position; 7 discrete saddle positions	· ·	<u> </u>	
Blade Range Lift Above Ground 490 mm [19.3 in.] Blade Side Shift fright rolleft) 683 mm (26.9 in.) Pitch at Ground Line Forward 42 deg. Shoulder Reach Outside Wheels (frame straight, right or left) 90 deg. Blade Pul 90 deg. Blade Pul 18 Bank Cut Angle (right or left) 90 deg. Blade Pul 18 At Maximum Operating Weight 15 501 kg (34,173 lb.) Electrical Solid-state load center and sealed-switch module 24 wolt 24 wolt 24 wolt 24 wolt 24 wolt 25 wolt 24 wolt 24 wolt 25 wolt 26 module Reach Outside Reach Outs			
Blade Side Shift right or left Forward Back Sole Shift right or left Forward Back Sole Shoulder Reach Outside Wheels (frame straight, right or left) Bank Cut Angle (right or left) Bank C		ent of blade-function controls; includes float position; 7 dis	crete saddle positions
Blade Side Shift (right or left) 683 mm [26.9 in.] Pitch at Cround Line Forward Az deg. Shoulder Reach Outside Wheels (frame straight, right or left) 90 deg. Shoulder Reach Outside Wheels (frame straight, right or left) 90 deg. Blade Pull At Maximum Operating Weight 15 501 kg [34,173 lb.) Electrical Solid-state load center and sealed-switch module 24 voit 24 voit 24 voit 24 voit 24 voit 25 degrate 14 voit 25 degrate 15 voit 26 degrate 16 voit 26 degrate 16 voit 27 degrate 17	_		
Pitch at Ground Line Forward A2 deg. Sideg. Solution Solitary S			
Forward 42 deg. Back 5 deg Shoulder Reach Outside Wheels (frame straight, right or left! 90 deg. Biade Pull Att Maximum Operating Weight 15 501 kg [34,73 lb.] Electrical Solid-state load center and sealed-switch module 24 voit 25 page 1/1 AUD CCA 40 m. 440 min. 440	Blade Side Shift (right or left)	683 mm (26.9 in.)	
Back Shoulder Reach Outside Wheels (frame straight, right or left) 2083 mm (82.0 in.) (6 ft. 10 in.) Shoulder Reach Outside Wheels (frame straight, right or left) 90 deg. Biade Puil At Maximum Operating Weight 15 501 kg [34,173 lb.) Electrical Solid-state load center and sealed-switch module PA Filer JEU Stage V EPA Tier JEU Stage IIIA and EPA Tier Z/EU Stage III Voltage 24 volt 24 volt 24 volt Number of Batteries 2 2 2 2 Battery Capacity 1400 CCA 14,000 CCA 14	Pitch at Ground Line		
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Solid-state load center and sealed-switch module EPA Finol Tier 4/EU Stage V EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II Voltage 24 volt 25 voltage III A and EPA Tier 2/EU Stage III And EPA Tier 2/EU	At Maximum Operating Weight	15 501 kg (34,173 lb.)	
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Moldboard			
		787 mm (31 in.)	787 mm (31 in.)
High-strenath, pre-stressed for higher strenath; wear-resistant, high-carbon steel and reversible end bits; blade side-shift wear system includes quick-change			
			s; blade side-shift wear system includes quick-change
replaceable wear inserts and quick-adjust jackscrew system			
Base Length 3.66 m (144 in.) (12 ft. 0 in.)			
Height (measured along arc, including 610 mm (24 in.)		610 mm (24 in.)	

670G/GP

Cutting Edge	670G/GP	
Dura-Max™ through-hardened steel edge		
Thickness	16 mm (0.62 in.)	
Width	152 mm (6 in.)	
Scarifiers	152 11111 (4 1111)	
	Front	Mid-mount
Туре	V-type toolbar with 2-pitch positions and hydraulic float	Radial linkage, with NeverGrease™ pin joints; V-type manual 3-pitch positions and hydraulic float
Width of Cut	1.20 m (48 in.) (4 ft. 0 in.)	1.19 m (46.7 in.) (3 ft. 11 in.)
Number of Shanks/Teeth	5 (maximum capacity 9)	11
Lift Above Ground	589 mm (23.2 in.)	335 mm (13.2 in.)
Maximum Depth	335 mm (13.2 in.)	325 mm (12.8 in.)
Shank		
Spacing	146 mm (5.75 in.)	117 mm (4.6 in.)
Size	25 x 76 mm (1 x 3 in.)	25 x 76 mm (1 x 3 in.)
Front Lift Group (Balderson-style)		
Parallel linkage, mechanical pins, and hydraul	ic 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 (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 (maximum capacity 9)
Lift Above Ground	602 mm (23.7 in.)	810 mm (31.9 in.)
Maximum Depth	426 mm (16.8 in.)	323 mm (12.7 in.)
Force		
Penetration	9526 kg (21,000 lb.)	_
Pry-Out	12 580 kg (27,734 lb.)	_
Shank Size	61.5 x 133 mm (2.42 x 5.25 in.)	25 x 76 mm (1 x 3 in.)
Operator Station		
Low-profile cab with ROPS (ISO 3471-2008) a	nd FOPS (ISO 3449-2005)	
Tires/Wheels		
	14R24 on 254-mm (10 in.) Rim	17.5R25 on 356-mm (14 in.) Rim
Wheel Tread on Ground	2.08 m (82.0 in.)	2.16 m (85.0 in.)
Overall Width	2.49 m (98.0 in.)	2.64 m (104.0 in.)
Ground Clearance (front axle)	587 mm (23.1 in.)	587 mm (23.1 in.)
Serviceability		
Refill Capacities	EPA Final Tier 4/EU Stage V	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Fuel Tank	416.5 L (110 gal.)	416.5 L (110 gal.)
Diesel Exhaust Fluid (DEF) Tank	22.5 L (6 gal.)	
Cooling System	55.0 L (14.5 gal.)	48.5 L (12.8 gal.)
Engine Oil With Filter	28.4 L (7.5 gal.)	28.0 L (7.4 gal.)
Transmission Fluid	28.4 L (7.5 gal.)	28.4 L (7.5 gal.)
Differential Housing	38.0 L (10 gal.)	38.0 L (10 gal.)
Tandem Housings (each)	74.0 L (19.5 gal.)	74.0 L (19.5 gal.)
Circle Gearbox	5.7 L (1.5 gal.)	5.7 L (1.5 gal.)
Hydraulic Reservoir	60.5 L (16 gal.)	53.0 L (14 gal.)
Operating Weights		
With Full Fuel Tank, 3.66-m x 610-mm x		
22-mm (12 ft. x 24 in. x 0.88 in.) Moldboard		
With 152-mm x 16-mm (6 in. x % in.) Cutting		
Edges, 14-24 Bias L2 Tires, and 79-kg (175 lb.)	EDA E: IT: //EU.C. V	EDAT: 2/EUG: WA LEDAT: 2/EUG: W
Operator	EPA Final Tier 4/EU Stage V	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II
Front	4193 kg (9,245 lb.)	4203 kg (9,265 lb.)
Rear	11 807 kg (26,030 lb.)	11 327 kg (24,972 lb.)
Total	16 000 kg (35,275 lb.)	15 530 kg (34,237 lb.)
Typical Operating Weight With Front Push Block, Rear Ripper/Scarifier, and Other		
Equipment	EE22 (~ (1217E IL)	E/.00 kg (12100 lb.)
Front	5522 kg (12,175 lb.)	5488 kg (12,100 lb.)
Rear	13 708 kg (30,220 lb.)	13 063 kg (28,800 lb.)
Total	19 230 kg (42,395 lb.)	18 552 kg (40,900 lb.)
Maximum Operating Weight	24 948 kg (55,000 lb.)	24 948 kg (55,000 lb.)

	tion Weights	670G/GP							
	Moldboards With Through-Hardened Dura-Max Cutting Edge								
	3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x ½ in.) with 152-mm x 16-mm (6 in. x ½ in.) cutting edge and 16-mm (½ in.) hardware	0 kg (0 lb.)							
	3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x $\frac{7}{6}$ in.) with 203-mm x 19-mm (8 in. x $\frac{3}{6}$ in.) cutting edge and 16-mm ($\frac{7}{6}$ in.) hardware	45 kg (99 lb.)							
	3.96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.) with 203-mm x 19-mm (8 in. x ¾ in.) cutting edge and 16-mm (% in.) hardware	180 kg (396 lb.)							
	$4.27 \mathrm{m} \times 610 \mathrm{mm} \times 22 \mathrm{mm} \left(14 \mathrm{ft.} \times 24 \mathrm{in.} \times \frac{1}{2} \mathrm{in.} \right)$ with 152-mm \times 16-mm (6 in. $\times \frac{1}{2} \mathrm{in.}$) cutting edge and 16-mm ($\frac{1}{2} \mathrm{in.}$) hardware	105 kg (231 lb.)							
	$4.27 \mathrm{m} \times 610 \mathrm{mm} \times 22 \mathrm{mm} (14 \mathrm{ft.} \times 24 \mathrm{in.} \times \% \mathrm{in.})$ with 203-mm × 19-mm (8 in. x $\%$ in.) cutting edge and 16-mm ($\%$ in.) hardware	157.4 kg (347 lb.)							
	4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203-mm x 19-mm (8 in. x ¾ in.) cutting edge and 16-mm (% in.) hardware	251 kg (554 lb.)							
	4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.) with 203-mm x 19-mm (8 in. x ¾ in.) cutting edge and 19-mm (¾ in.) hardware	261 kg (575 lb.)							
Ex	tensions, 610 mm (2 ft.) (right or left)								
	For Use With 610-mm (24 in.) Moldboards	116 kg (255 lb.)							
	For Use With 686-mm (27 in.) Moldboards	120 kg (265 lb.)							
Ov	erlay 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.)							
He	avy-Duty Dual-Input Circle-Drive Gearbox	14 kg (31 lb.)							
Cir	cle-Drive Slip Clutch	9 kg (20 lb.)							
	cle	_							
	Standard	0 kg (0 lb.)							
	Premium	289 kg (638 lb.)							
Mo	oldboard Impact-Absorption System	43 kg (95 lb.)							
Sh	oper/Scarifier, Rear Mounted With Hitch and Ripper anks (3)	1139 kg (2,510 lb.)							
Sca	arifier Shanks With Teeth (9 for rear ripper/scarifier)	68 kg (150 lb.)							
	pper Shanks and Teeth (2)	63 kg (139 lb.)							
Re	ar Counterweight With Integral Rear Hitch	727 kg (1,603 lb.)							
Ma	achine Dimensions								
Α	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.)							
В	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)	670G/GP
Rear Hitch	54.4 kg (120 lb.)
Push Block, Front	1338 kg (2,950 lb.)
Scarifier	
Front Mount With Teeth (5)	831 kg (1,833 lb.)
Mid-Mount With Teeth (11)	1481 kg (3,265 lb.)
Front Lift Group (Balderson-style)	763 kg (1,682 lb.)
Tires	
14.00-24, 12 PR G2	0 kg (0 lb.)
17.5-25, 12 PR G2/L2	114 kg (252 lb.)
14.00-R24, Radial, G2/L2 General Purpose	220 kg (486 lb.)
14.00-R24, Radial, G2/L2 Snow	261 kg (576 lb.)
17.5-R25, Radial, L2 General Purpose	272 kg (600 lb.)
17.5-R25, Radial, G2/L2 Snow	316 kg (696 lb.)
17.5-R25, Radial, G3/L3 General Purpose	362 kg (798 lb.)
1-Piece Rims	3 · · ·
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 kg (144 lb.)
Multi-Piece Rims	(
254 mm x 610 mm (10 in. x 24 in.)	180 kg (396 lb.)
356 mm x 635 mm (14 in. x 25 in.)	267 kg (588 lb.)
Fenders	207 119 (200 121)
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	.5 1.9 (20 .5.)
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)	
Secondary Steering	26 kg (58 lb.)
Beacon Bracket	8 kg (18 lb.)
Fire Extinguisher	14.5 kg (32 lb.)
Lighting Packages	J
10 Halogen Lights	4.5 kg (10 lb.)
18 Halogen Lights	8 kg (18 lb.)
18 LED Lights	7 kg (16 lb.)
High-Front Light Bar for Snowplowing	20 kg (44 lb.)
Auxiliary Hydraulic Control Valve Section and Controls	7 kg (15 lb.)
Hydraulics for Front-Mounted Equipment	9 kg (19 lb.)
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 Overall Length With Scarifier and Ripper	10.59 m (34 ft. 9 in.)
. Overan Length With Starmer and hipper	10.00 111 (07 1 1. 0 111.)



Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

20 (670 7	70	870	Operator's Station	620	670	770	870	Electrical
•	•	•	•	Low-profile ROPS/FOPS cab with HVAC (ROPS ISO 3471 / FOPS SAE 3449 Level II)	•	•	•	•	100-amp alternator (Tier 3/Stage IIIA and Tier 2. Stage II)
A	A	A	A	Low-profile ROPS/FOPS cab utilizing laminated glass with fixed lower front and side opening windows	•	•	•	•	130-amp alternator (FT4/Stage V [optional for Ti Stage IIIA and Tier 2/Stage II])
•	_	A	A	Opening front and side windows (standard with	A	A	A	A	200-amp alternator (FT4/Stage V)
•	•	•	•	Grade Pro) Keyless start with multiple security modes	•	•	•	•	Batteries (2), 1,400 CCA with 440-min. reserve capacity
	•	•	•	Fabric air-suspension seat with armrests and headrest	A	•	•	•	Left-hand engine compartment service-check li
\	A	A	A	Premium heated, leather/fabric, high-wide-back, air-suspension seat with armrests (standard with Grade Pro)	•	•	•	•	Right-hand engine compartment service-check Transporting lights (4 halogen) Grading lights (10 halogen lights)
	•	•	•	Sealed-switch module with function indicators	A	_	_	_	3 3 3
)	•	•	•	Electric rear-window defroster					Deluxe grading lights (18 halogen lights) Premium grading lights (18 LED lights)
)	•	•	•	Upper front windshield washers with intermittent		_	_	_	Tall front snowplow light bar
	•	•		wipers		-			Multifunction/multi-language diagnostic LCD
\	•	•	•	Upper rear windshield washers with intermittent					color monitor
				wipers	•	•	•	•	Reverse warning alarm (SAE J994)
	A .	A	A	Lower front intermittent wiper and washer		•	•	•	LED brake and turn lights
	.	A	A	Powered cab precleaner					Moldboard
	A .	A	A	Decelerator pedal					Patented pre-stressed, high strength, wear resis
	A .	A	A	Flip-down, right- and/or left-hand cab beacon		•	•		3.66 m x 610 mm x 22 mm (12 ft. x 24 in. x 1/8 in.)
	_	_		with bracket		A			3.96 m x 686 mm x 25 mm (13 ft. x 27 in. x 1 in.)
	•	•	•	Cab prewired for beacon, radio, and auxiliary circuit					4.27 m x 610 mm x 22 mm (14 ft. x 24 in. x % in.)
	•	•	•	Front window sun visor		A		•	4.27 m x 686 mm x 25 mm (14 ft. x 27 in. x 1 in.)
	A .	A	A	Retractable rear sunshade				\blacktriangle	4.88 m x 686 mm x 25 mm (16 ft. x 27 in. x 1 in.)
	•	•	•	Rearview mirrors, exterior (2) (SAE J985)	•	•	•	•	Quick-change and jackscrew-adjustable moldbo
	<u> </u>	A	A	Heated exterior mirrors (2) (SAE J985)					side-shift extreme-duty wear inserts
	A .	A	A	Fire extinguisher	•	_			610-mm (24 in.) left- or right-hand extensions f
	•	•	•	High-resolution rear camera with dedicated in-cab					610-mm (24 in.) moldboard
•			•	monitor (in some markets)					610-mm (24 in.) left- or right-hand extensions f
	•	A	_	High-resolution front/rear-camera combination					686-mm (27 in.) moldboard
	A .	A	_	with dedicated in-cab monitor		_			Reversible overlay endbits
	A	•	_	with dedicated in-cab monitor Retractable seat helt. 76 mm (3 in.) (SAF 386)					·
	•	•	•	Retractable seat belt, 76 mm (3 in.) (SAE 386)					Overall Vehicle
	•	•	•	Retractable seat belt, 76 mm (3 in.) (SAE 386) AM/FM radio with auxiliary and Weather Band (WB)	•	•	•	•	Overall Vehicle JDLink™ wireless communication system (availa
	•	•	•	Retractable seat belt, 76 mm (3 in.) (SAE 386) AM/FM radio with auxiliary and Weather Band (WB) AM/FM radio with Bluetooth®, auxiliary, and	•	•	•	•	Overall Vehicle JDLink™ wireless communication system (availa in specific countries; see your dealer for details)
	•	•	•	Retractable seat belt, 76 mm (3 in.) (SAE 386) AM/FM radio with auxiliary and Weather Band (WB)	•	•	•	•	Overall Vehicle JDLink™ wireless communication system (availa

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 ISO9249. 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 units with standard equipment; 14.0 x 610-mm (24 in.) 12 PR G2, Bias tires and 3.66-mx 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* through-hardened-steel cutting edges for the 620G, 670G, and 770G; and 17.5 R 635-mm (25 in.) L2, Radial tires and 4.27-mx 688-mm x 25-mm (14 ft. x 27 in. x 1 in.) high-strength, wear-resistant moldboards with 16-mm x 152-mm (0.63 in. x 6 in.) Dura-Max through-hardened-steel cutting edges for the 870G. Weights include lubricants, coolants, full fuel tanks, and 79-kg (175 lb.) operators.

Additional equipment (continued)

Machine-Damage Avoidance

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

620	670	770	870	Overall Vehicle (continued)	620	670	770	870	Front Attachments
•	lacktriangle	lacktriangle	•	Vandal-protection locking for: Cab doors / Top tank		A	A	A	Front push block
				radiator-access door / Engine coolant surge tank /					V-type front scarifier with float position, 5 shanks
				Hydraulic reservoir cap / Battery-disconnect switch /				A	Mid-mount scarifier with float position, 11 shanks
				Ground-level electrical master disconnect switch /					Front Balderson-style lift group with float position
				Fuel-tank door and cap / Toolbox		A	\blacktriangle	A	Front-mounted dozer blades
•	•	•	•	Environmental drains with hoses for engine,					Rear Attachments
	_	_		transmission, hydraulic, differential fluids, and engine coolant	•	•	•	•	Full bottom guard with access panel and side guards for rear vehicle protection
	•	•	•	Hydraulically driven cool-on-demand reversing fan		•	•	•	Rear-mounted ripper/scarifier combination with
•	•	•	•	Banked easy-access vertical spin-on filters for					rear hitch and pin, 3 ripper shanks
	_	_	_	hydraulic, transmission, and axle fluids	lack	•	•	A	Rear counterweight with rear hitch and pin
	•	•	•	Engine rotary ejector precleaner					Rear hitch and pin
	•	•	•	Automatic differential lock	lack	•	•	A	Extra scarifier shanks (9) with teeth for rear ripper
	•	•	•	Engine-stall prevention and auto shutdown					scarifier
	A	A	A	Adjustable rotary engine precleaner (FT4/Stage V)					Extra ripper shanks (2) with teeth for rear ripper/
	A	•	•	Heavy-duty air cleaner (FT4/Stage V)					scarifier
•	•	•		Single-input circle drive					Grade Pro (GP) Option
	A	A	_	Single-input circle drive with slip clutch		•		•	Low-profile GP cab with opening lower front and
	A	A	•	Heavy-duty dual-input circle drive without slip clutch					side windows
	A	A	A	Heavy-duty dual-input circle drive with slip clutch					Low-profile GP cab utilizing laminated glass with
A	A	A	A	Premium circle					fixed lower front and side opening windows
	_	_	_	Auto-Shift transmission	•		•		Premium heated, leather/fabric, high-wide-back,
			A	Auto-Shift PLUS transmission					air-suspension seat with armrests
	A	A	A	Blade-impact-absorption system					Dual-joystick controls
	A	A		Front and/or rear wheel fenders	A				Fingertip armrest-mounted controls including
A				Quick-service bank for transmission, hydraulic,					steering lever
				engine oil, and engine coolant fluid changes	•	•	•	•	Steering wheel
	A	A	A	Secondary steering	•	•	•	•	Cross slope
				Sound-absorption package (Tier 3/Stage IIIA and	•	•	•	•	Return to straight
				Tier 2/Stage II)					Grade Control
A	_	_	A	Wheel chocks		A	A	A	SmartGrade available on GP models
				Automation (standard on SmartGrade™ models,					Mast mounts
•	•	•	•	optional on GP models)		A	_	A	Topcon ready available on G and GP models
	•	•	<u> </u>	Automation Suite					Trimble ready available on G and GP models
	_	_	_	Auto-Articulation					
A	A	A	A	Auto-Gain for Cross Slope					
A	_	_	A	Auto-Pass					
A	<u> </u>	<u> </u>		Blade Flip					
				Machine Presets					