

ENGINE

John Deere engineered and manufactured six-cylinder diesel engine. Replaceable wet-type cylinder liners ensure superior heat dissipation, longer engine life. High-strength alloy heads include replaceable valve seat inserts. John Deere engines are designed and manufactured with time-proven industry standard features that provide reliable service and long life.

Engine: John Deere 6068T

Rated power at 2300 rpm.....135 SAE net hp (101 kW)
142 SAE gross hp (106 kW)
 Turbochargerstandard
 Number of cylinders6
 Displacement414 cu. in. (6.785 L)
 Fuel consumption, typical
 (depending on duty cycle)3.0 to 6.0 gal./hr. (11 to 23 L/h)
 Net torque at 1300 rpm
 (45% torque rise)460 lb.-ft. (624 Nm)
 Lubricationpressure system w/full flow filter and cooler
 Aspirated air cleaner with restriction
 indicatordual element, dry
 Electrical system24 volt with 42-amp (1120 W) alternator
 Batteriestwo 12-volt with 180 minute reserve capacity

TRANSMISSION

Direct drive, planetary power shift transmission with modulated shift on-the-go speed selections in all eight forward and four reverse gears. There are five working speeds below 9 mph (15 km/h). Standard equipment also includes an inching pedal and tow disconnect.

TRAVEL SPEEDS

(At 2300 engine rpm with 13.00-24 tires and no tire slip)

Shift Lever Position	Forward		Reverse	
	mph	(km/h)	mph	(km/h)
1	2.2	3.5	2.9	4.7
2	3.2	5.1	4.1	6.6
3	4.9	7.9	6.3	10.1
4	6.4	10.3	8.2	13.2
5	8.4	13.5		
6	10.9	17.5		
7	14.2	22.9		
8	24.4	39.3		

FINAL DRIVE

Inboard-mounted planetary final drives are sealed in cool, filtered oil. The operator-controlled differential lock/unlock system allows the differential to easily be locked for maximum traction or unlocked for maneuverability in tight turns. Two-inch (51 mm) pitch tandem drive chains are sized for long life.

BRAKES

Foot-operated hydraulic wet-disk power brakes are sealed in cool, filtered oil. They're self-adjusting and maintenance free. Standard equipment also includes a hand-operated, mechanical dry-disk parking brake. Both independent braking systems are effective on all four tandem wheels.

FRONT AXLE

Heavy-duty, welded box construction

Front axle oscillation (total)32 degrees
 Wheel lean (each direction)20 degrees

STEERING

A John Deere innovation – all hydraulic power frame articulation provides maximum maneuverability and productivity. Crab steering reduces side drift, positions the tandems on firm ground and increases sideslope stability.

Frame articulation (both right and left)25 degrees
 Minimum turning radius22 ft. (6.7 m)

HYDRAULICS

The closed-center hydraulic system uses a pressure-controlled variable-displacement single hydraulic pump. Integral hydraulic control valve lockouts eliminate cylinder drift. O-ring face seal and fittings eliminate hydraulic leaks.

Hydraulic pump4.0 cu. in. (65 cm³)
 Rated flow at 2300 engine rpm37.6 gpm (142 L/min.)

TIRES AND RIMS

Tire Size	Wheel Tread		Overall Width		Ground Clearance (Front Axle)
	Front	Rear	Front	Rear	
13.00-24 9 in. rim (229 mm)	76.60 in. (1.94 m)	79.60 in. (2.02 m)	7 ft. 10 in. (2.39 m)	7 ft. 10 in. (2.39 m)	22 in. (559 mm)
14.00-24 10 in. rim (254 mm)	76.60 in. (1.94 m)	79.60 in. (2.02 m)	8 ft. (2.44 m)	8 ft. (2.44m)	22.5 in. (572 mm)
17.5-25 14 in. rim (356 mm)	79.40 in. (2.02 m)	82.40 in. (2.09 m)	8 ft. 6 in. (2.59 m)	8 ft. 6 in. (2.59 m)	23.2 in. (589 mm)

CAPACITIES

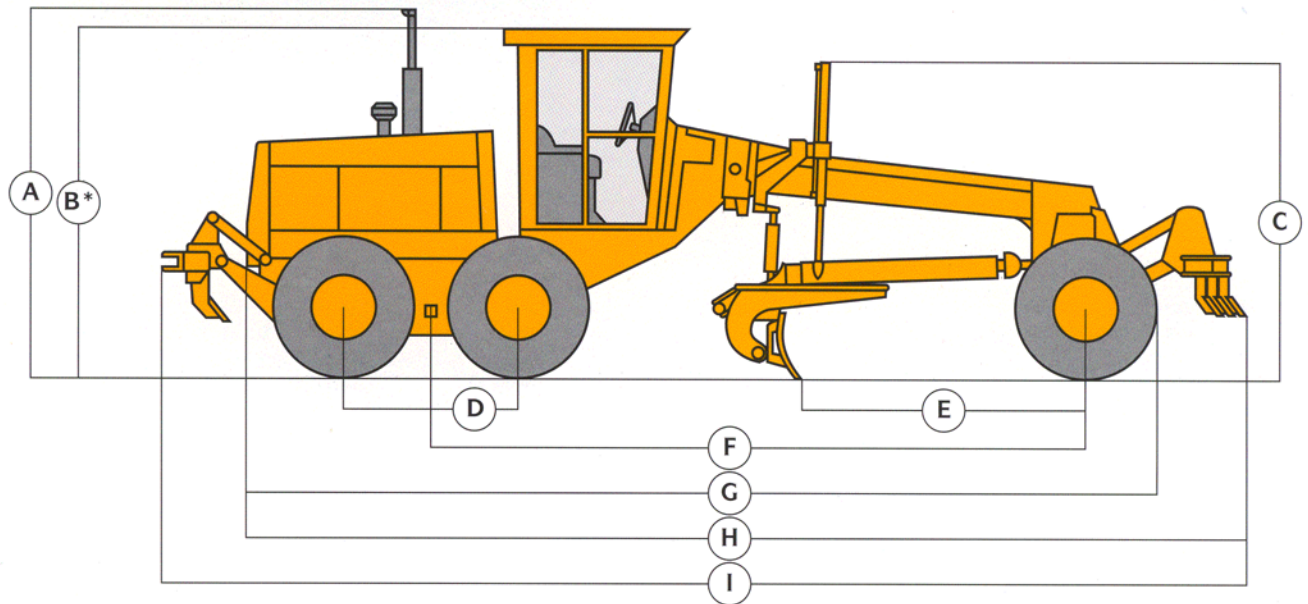
U.S.
 Fuel tank70 gal. (265 L)
 Cooling system7 gal. (26.5 L)
 Engine lubrication, including filter20 qt. (18.9 L)
 Transmission and hydraulic system (refill)14 gal. (53 L)
 Tandem housings (each)5 gal. (18.9 L)
 Circle gearbox3 qt. (2.8 L)

OPERATING WEIGHTS

SAE	On Front Wheels	On Rear Wheels	Total
With standard equipment.....	8,620 lb. (3 909 kg)	20,410 lb. (9 256 kg)	29,030 lb. (13 166 kg)
With standard equipment and scarifier.....	10,610 lb. (4 812 kg)	20,150 lb. (9 138 kg)	30,760 lb. (13 950 kg)
With standard equipment, scarifier and ripper.....	9,870 lb. (4 476 kg)	23,440 lb. (10 630 kg)	33,310 lb. (15 107 kg)

Typically equipped operating weights range up to 35,020 lb. (15 882 kg)

DIMENSIONS



Key:

A	Height to top of exhaust	10 ft. 3 in. (3.12 m)
B	Height to top of cab	10 ft. 0.5 in. (3.06 m)
C	Height to top of blade lift cylinders	9 ft. 7 in. (2.92 m)
D	Tandem axle spacing	5 ft. 0.7 in. (1.54 m)
E	Bladebase	8 ft. 9 in. (2.67 m)
F	Wheelbase	19 ft. 7 in. (5.97 m)
G	Overall length	27 ft. 3 in. (8.31 m)
H	Overall length with scarifier	29 ft. 7 in. (9.02 m)
I	Overall length with scarifier and ripper	31 ft. 11 in. (9.73 m)

*Add 8.3 in. (210 mm) for full height cab

Add 1.0 in. (25.5 mm) for cab with air conditioning

Add 0 in. (0 mm) for low profile canopy with ROPS

BLADE FUNCTION

All hydraulic, industry-preferred hand lever placement of blade function controls (standard equipment). Blade lift controls include a float position. Conversion from two-hand to one-hand control is easily accomplished. Seven blade lift arm positions provide excellent blade positioning capabilities. Blade components are fully adjustable.

BLADE RANGE

Lift above ground	17.5 in. (444 mm)
Blade side shift, right or left	26.9 in. (683 mm)
Shoulder reach outside wheels (frame straight):	
Right	83 in. (2.11 m)
Left	85 in. (2.16 m)
Pitch at ground line	49 deg. forward 5 deg. back

MAINFRAME

Welded box construction	
Width, minimum	12.07 in. (306.5 mm)
Height, minimum	10.63 in. (270 mm)
Thickness, sides	0.63 in. (16 mm)
top and bottom	1.00 in. (25 mm)
Weight per ft., minimum	118 lb.-ft. (175.5 kg/m)
Minimum vertical section modulus	117 in. ³ (1917 cm ³)
Average vertical section modulus at saddle	149 in. ³ (2448 cm ³)

DRAWBAR

Welded box construction machined for flatness with double ball and socket pivot connection and replaceable wear inserts.

CIRCLE

Welded construction, heat-treated for strength and machined for flatness with replaceable wear inserts.

Circle diameter	60 in. (1.52 m)
Rotation	360 degrees
Drive	hydraulic motor and worm gear with positive position lock
Sideshift, right	28.5 in. (724 mm)
left	31.0 in. (787 mm)

MOLDBOARD

High strength, wear resistant high carbon steel with replaceable side shift wear inserts.

Length	12 ft. (3.66 m)
Height	24 in. (610 mm)
Thickness	0.88 in. (22 mm)

CUTTING EDGE

Dura-Max® through-hardened steel edge.

Thickness and width	0.62 x 6.0 in. (16 x 152 mm)
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SCARIFIER

V-type manual three-pitch position with hydraulic float.

Width of cut.....	4 ft. (1.22 m)
Number of teeth.....	5 standard, 9 optional
Lift above ground.....	21.8 in. (554 mm)
Maximum penetration.....	13.3 in. (338 mm)
Shank size.....	1 x 3 in. (25 x 76 mm)

RIPPER

Parallelogram linkage with manual valve control.

Width of cut.....	8 ft. (2.44 m)
Number of shanks.....	3 standard, 5 optional
Lift above ground.....	14.5 in. (368 mm)
Maximum penetration.....	14 in. (356 mm)
Shank size.....	2 x 5 in. (51 x 127 mm)

ADDITIONAL STANDARD EQUIPMENT

Engine/Power Train:	Blade lift with float
Air precleaner	Blade pitch
Antifreeze	Blade sideshift
Electric fuel shutoff	Circle rotate
Fan guard	Circle side shift
Fuel filter	Frame articulate
Radiator trash screen	Wheel lean
Transmission tow disconnect	Hydraulic differential lock
13.00-24, 8 PR, G2 tires	Hydraulic oil cooler
Electrical System:	Hydraulic pump, 4.0 cu. in. (65 cu. cm), 37.6 gpm (142 Lpm)
40 amp (1120 watt) alternator	Power brakes
Batteries with 180 min. (625 CCA) reserve capacity	Power steering
Horn	Operator's Station:
Lights	Adjustable front console
Driving (2)	Cushioned vinyl seat
Flashing and turn signals (4)	Front windshield wiper
Stop and tail (2)	Instrument lights
Reverse warning alarm	Interior light
Hydraulics:	Low profile cab with ROPS
Controls	Mirrors

RIPPER/SCARIFIER

Parallelogram linkage with manual valve control and hydraulic float.

Ripper:

Width of cut.....	8 ft. (2.44 m)
Number of shanks.....	3 standard, 5 optional
Lift above ground.....	14.5 in. (368 mm)
Maximum penetration.....	14 in. (356 mm)
Shank size.....	2 x 5 in. (51 x 127 mm)

Scarifier:

Width of cut.....	6 ft. 10 in. (2.08 m)
Number of teeth.....	9
Lift above ground.....	17.5 in. (444 mm)
Maximum penetration.....	12.0 in. (305 mm)
Shank size.....	1.25 x 4.0 in. (32 x 102 mm)

Interior rearview	warning light with audible alarm
Outside rearview (2)	Saddle locking pin disengaged warning light
Seat belt	Transmission oil filter restriction warning light
Switch-operated differential lock control	Transmission oil pressure warning light
Tilt steering	Transmission oil temperature warning light with audible alarm
Tinted glass	Indicator lights
Instruments and Indicators:	Differential lock engaged
Dual level monitor system	Turn signal and hazard warning
Alternator voltage warning light	Gauges
Brake pressure warning light with audible alarm	Articulation indicator
Engine air cleaner restriction warning light	Fuel
Engine coolant temperature warning light with audible alarm	Hourmeter
Engine oil pressure warning light with audible alarm	Moldboard:
Hydraulic oil filter restriction warning light	12 ft. x 24 in. (3.66 m x 610 mm) moldboard with .62 x 6 in. (16 x 152 mm) through hardened Dura-Max cutting edge
Park brake engaged (in gear)	

OPTIONAL OR SPECIAL EQUIPMENT WITH APPROXIMATE WEIGHTS

(Add these weights to SAE standard equipment operating weight to obtain total operating weight.)

	lb.	kg		lb.	kg
Engine/Power Train:			13 ft. x 24 in. (3.96 m x 610 mm) moldboard with .62 x 6 in. (16 x 152 mm) through hardened Dura-Max cutting edge	60	27
Cold weather ether starting aid	3	1	13 ft. x 24 in. (3.66 m x 610 mm) moldboard with .75 x 8 in. (19 x 203 mm) through hardened Dura-Max cutting edge	196	89
Coolant heater	2	1	14 ft. x 24 in. (4.27 m x 610 mm) moldboard with .62 x 6 in. (16 x 152 mm) through hardened Dura-Max cutting edge	119	54
Operator's Station:			14 ft. x 24 in. (4.27 m x 610 mm) moldboard with .75 x 8 in. (19 x 203 mm) through hardened Dura-Max cutting edge	265	120
Air conditioner with pressurizer and heavy-duty alternator	177	80	Extensions, 2 ft. (610 mm) right or left (less cutting edge)	220	100
Cab, full height with ROPS	82	37	Overlay end bits (1 pair)		
Canopy, low profile with ROPS	-226	-103	6 in. (152 mm)	62	28
Control conversion (moves LH blade control to RH side)	2	1	8 in. (203 mm)	77	35
Defroster fan	4	2	Attachments:		
Defroster fans (dual)	8	4	Bottom guard, general purpose	170	77
Floor mat	9	4	Bottom guard, heavy duty with rear hitch	610	277
Heater - 20,000 Btu/hr (5.9 kW)	16	7	Engine side shields	60	27
Heater - 40,000 Btu/hr (11.7 kW)	31	14	Front-mounted dozer blade - 106 x 31.6 in. (2.69 m x 803 mm)	1490	676
Heater - 25,000 Btu/hr (7.3 kW), roof mounted for use with air conditioner	17	8	5.3 in. (135 mm) dig below ground		
Pressurizer, cab fresh air	43	20	28.9 in. (734 mm) lift above ground	1730	785
Seat belt, 3 in. (76 mm)	3	1	Front-mounted scarifier with 5 teeth	1750	793
Seat, deluxe suspension vinyl with armrests	90	41	Front pushblock	550	250
Seat, deluxe suspension cloth with armrests	90	41	Front weight	61	28
Windshield washers, front and rear	15	7	Rear hitch	2470	1120
Wipers/washers, lower front windows	7	3	Rear-mounted ripper with hitch and 3 shanks		
Wiper, rear window	5	2	Rear-mounted ripper/scarifier with hitch, 3 ripper shanks and 9 scarifier teeth	3284	1489
Electrical System:			Toolbox	11	5
Alternator, 50 amp (1400 watt)	17	8	Tires:		
Beacon wiring and switch	2	1	13.00-24, 12 PR, G2 tires on 9 in. rims	126	57
Blade lights (2 mounted under cab)	4	2	14.00-24, 12 PR, G2 tires on 9 in. rims	210	95
Work lights (2 front, 2 rear)	12	5	14.00-24, 12 PR, G2 tires on 10 in. 3-piece rims	577	262
24 volt to 12 volt converter	3	1	14.00-24 radial tires on 10 in. 3-piece rims	799	362
Hydraulics:			17.5-25, 12 PR, L2 tires on 14 in. 3-piece rims	1049	476
Auxiliary function valve for front-mounted equipment	3	1	Other tire sizes available		
Auxiliary function valve for rear-mounted equipment	50	23			
Hydraulic pump, 6.0 cu. in. (98 cu. cm) 52.4 gpm (198 Lpm)	50	23			
Hydraulics for front-mounted equipment	19	9			
Moldboards:					
12 ft. x 24 in. (3.66 m x 610 mm) moldboard with .75 x 8 in. (19 x 203 mm) through hardened Dura-Max cutting edge	126	57			