

ENGINE

John Deere engineered and manufactured 6-cylinder diesel engine features replaceable wet-type cylinder liners that ensure superior heat dissipation and long engine life. A 20 percent increase in low-speed torque means more lugging power and quicker engine response under changing loads. Improved fuel efficiency combined with increased torque lets you do more work with less fuel.

Engine: John Deere 6076T

Rated power at 2200 rpm 155 SAE net hp (116 kW)
 162 SAE gross hp (121 kW)
 Turbocharged standard
 Number of cylinders 6
 Displacement 466 cu. in. (7.638 L)
 Fuel consumption, typical
 (depending on duty cycle) 4.0 to 6.0 gal./hr. (15 to 23 L/h)
 Net torque at 1100 rpm
 (42% torque rise) 522 lb.-ft. (708 Nm)
 Lubrication pressure system w/full flow filter and cooler
 Aspirated air cleaner with restriction
 indicator dual element, dry
 Electrical system 24 volt with 45-amp (1260 W) alternator
 Batteries two 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 2200 engine rpm with 14.00-24 tires and no tire slip)

Shift Lever Position	Forward		Reverse	
	mph	(km/h)	mph	(km/h)
1	2.3	3.7	3.0	4.8
2	3.3	5.3	4.3	6.9
3	5.2	8.4	6.7	10.8
4	6.7	10.8	8.6	13.8
5	8.9	14.3		
6	11.5	18.5		
7	14.7	23.7		
8	25.2	40.6		

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 and 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 radius 22 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 pump 6.0 cu. in. (98 cm³)
 Rated flow at 2200 engine rpm 52.4 gpm (198 L/min.)

TIRES AND RIMS

Tire Size	Wheel Tread		Overall Width		Ground Clearance
	Front	Rear	Front	Rear	(Front Axle)
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. (2.44 m)	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.

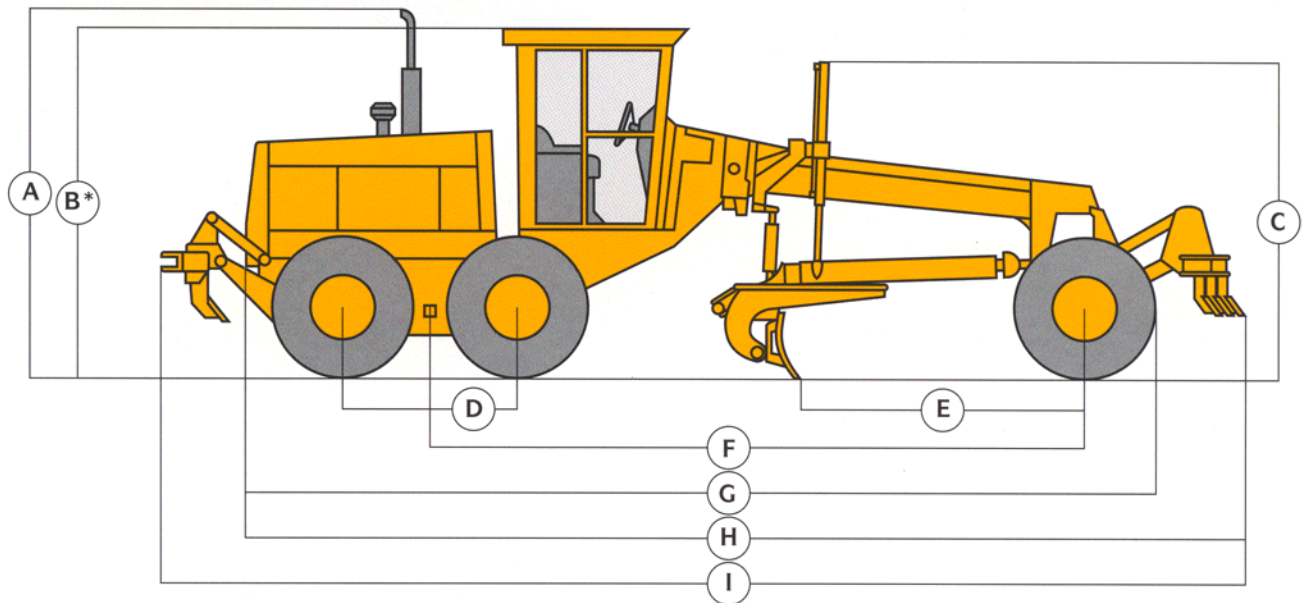
Fuel tank 90 gal. (340 L)
 Cooling system 10 gal. (38 L)
 Engine lubrication, including filter 26 qt. (24.6 L)
 Transmission and hydraulic system (refill) 23 gal. (87 L)
 Tandem housings (each) 5 gal. (18.9 L)
 Circle gearbox 4 qt. (3.8 L)

OPERATING WEIGHTS

SAE	On Front Wheels	On Rear Wheels	Total
With standard equipment.....	8,700 lb. (3946 kg)	22,550 lb. (10 229 kg)	31,250 lb. (14 175 kg)
With standard equipment and scarifier.....	10,640 lb. (4825 kg)	22,340 lb. (10 130 kg)	32,980 lb. (14 960 kg)
With standard equipment, scarifier and ripper.....	9,870 lb. (4476 kg)	25,580 lb. (11 603 kg)	35,450 lb. (16 080 kg)

Typically equipped operating weights range up to 38,470 lb. (17 450 kg).

DIMENSIONS



Key:

A	Height to top of exhaust	10 ft. 10 in. (3.30 m)
B	Height to top of cab	10 ft. 1.5 in. (3.09 m)
C	Height to top of blade lift cylinders	9 ft. 8 in. (2.95 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. 11 in. (8.51 m)
H	Overall length with scarifier	30 ft. 3 in. (9.22 m)
I	Overall length with scarifier and ripper	32 ft. 7 in. (9.93 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 RANGE

Lift above ground	18.5 in. (470 mm)
Blade side shift, right or left	26.9 in. (683 mm)
Shoulder reach outside wheels (frame straight):	
Right	83.0 in. (2.11 m)
Left	85.0 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.

CIRCLE

Welded construction, heat-treated for strength and machined for flatness.

Circle diameter	60 in. (1.5 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.

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.....15.5 in. (394 mm)
 Maximum penetration.....14 in. (356 mm)
 Shank size.....2 x 5 in. (51 x 127 mm)

ADDITIONAL STANDARD EQUIPMENT

Engine/Power Train:
 Air precleaner
 Antifreeze
 Battery disconnect
 Fan guard
 Fuel filter and water separator
 Radiator trash screen
 Transmission tow disconnect
 14.00-24, 10 PR, G2 tires
Electrical System:
 45 amp (1260 watt) alternator
 Batteries with 180 min. (625 CCA) reserve capacity
 Horn
 Lights
 Driving (2)
 Flashing and turn signals (4)
 Stop and tail (2)
 Reverse warning alarm
Hydraulics:
 Controls

Blade lift with float
 Blade pitch
 Blade sideshift
 Circle rotate
 Circle sideshift
 Frame articulate
 Wheel lean
 Hydraulic differential lock
 Hydraulic oil cooler
 Hydraulic pump, 6.0 cu. in. (98 cm³), 52.4 gpm (198 Lpm)
 Power brakes
 Power steering
Operator's Station:
 Adjustable front console
 Cushioned vinyl seat
 Front windshield wiper
 Instrument lights
 Interior light
 Low profile cab with ROPS
 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.....15.5 in. (394 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
 Outside rearview (2)
 Seat belt
 Switch-operated differential lock control
 Tilt steering
 Tinted glass
Instruments and Indicators:
 Dual level monitor system
 Alternator voltage warning light
 Brake pressure warning light with audible alarm
 Engine air cleaner restriction warning light
 Engine coolant temperature warning light with audible alarm
 Engine oil pressure warning light with audible alarm
 Hydraulic oil filter restriction warning light
 Park brake engaged (in gear) warning light with audible alarm

Saddle locking pin disengaged warning light
 Transmission oil filter restriction warning light
 Transmission oil pressure warning light
 Transmission oil temperature warning light with audible alarm
 Indicator lights
 Differential lock engaged
 Turn signal and hazard warning
Gauges
 Articulation indicator
 Fuel
 Hourmeter
Moldboard:
 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

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 R134a refrigerant, 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) 6 in. (152 mm) 8 in. (203 mm)	62 77	28 35
Canopy, low profile with ROPS	-226	-103	Attachments:		
Control conversion (moves LH blade control to RH side)	2	1	Bottom guard, general purpose	170	77
Defroster fan	4	2	Bottom guard, heavy duty with rear hitch	610	277
Defroster fans (dual)	8	4	Dozer blade, front mounted - 106 x 31.6 in. (2.69 m x 803 mm)	1490	676
Floor mat	9	4	4.3 in. (109 mm) dig below ground 29.9 in. (759 mm) lift above ground		
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 weight	550	250
Heater - 25,000 Btu/hr (7.3 kW), roof mounted for use with air conditioner	17	8	Pushblock, front	1750	793
Seat belt, 3 in. (76 mm)	3	1	Rear hitch	61	28
Seat, deluxe suspension vinyl with armrests	90	41	Ripper, rear mounted with hitch and 3 shanks	2470	1120
Seat, deluxe suspension cloth with armrests	90	41	Ripper/scarifier, rear mounted with hitch, 3 ripper shanks and 9 scarifier teeth	3284	1489
Windows, openable lower front	7	3	Scarifier, front mounted with 5 teeth	1730	785
Windshield washers, front and rear	15	7	Toolbox	11	5
Wipers/washers, lower front windows	7	3	Tires:		
Wiper, rear window	5	2	13.00-24, 12 PR, G2 tires on 9 in. rims	24	11
Electrical System:			14.00-24, 12 PR, G2 tires on 9 in. rims	108	49
Alternator, 50 amp (1400 watt)	17	8	14.00-24, 12 PR, G2 tires on 10 in. 3-piece rims	475	215
Batteries, heavy-duty with 320 min. (1100 CCA) reserve capacity	101	46	14.00-24 radial tires on 10 in. 3-piece rims	697	316
Beacon wiring and switch	2	1	17.5-25, 12 PR, L2 tires on 14 in. 3-piece rims	947	429
Blade lights (2 mounted under cab)	4	2	Other tire sizes available		
Work lights (2 front, 2 rear)	12	5			
24 volt to 12 volt 5-amp converter	3	1			
24 volt to 12 volt 20-amp battery balancer	3	1			
Hydraulics:					
Auxiliary function valve for front-mounted equipment	3	1			
Auxiliary function valve for rear-mounted equipment	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			