

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 6059D
 Rated power at 2300 rpm.....90 SAE net hp (67 kW)
95 SAE gross hp (71 kW)
 Number of cylinders.....6
 Displacement.....359 cu. in. (5.884 L)
 Fuel consumption, typical
 (depending on duty cycle).....2.4 to 3.1 gal./hr. (9 to 11.7 L/h)
 Net torque at 1300 rpm
 (22% torque rise).....250 lb.-ft. (339 Nm)
 Lubrication.....pressure system w/full flow filter and cooler
 Aspirated air cleaner with restriction
 indicator.....dual element, dry
 Electrical system.....24 volt with 42-amp (1120 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 2300 engine rpm with 13.00-24 tires and no tire slip)

Shift Lever Position	Forward		Reverse	
	mph	(km/h)	mph	(km/h)
1	2.0	3.2	2.5	4.0
2	2.9	4.7	3.5	5.6
3	4.5	7.2	5.5	8.9
4	5.8	9.3	7.1	11.4
5	7.6	12.2		
6	9.8	15.8		
7	12.8	20.6		
8	21.6	34.8		

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. One and three quarter-inch (45 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).....30 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).....22 degrees
 Minimum turning radius.....18 ft. (5.49 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.....3.0 cu. in. (50 cm³)
 Rated flow at 2300 engine rpm.....27 gpm (102 L/min.)

TIRES AND RIMS

Tire Size	Wheel Tread		Overall Width		Ground Clearance
	Front	Rear	Front	Rear	(Front Axle)
13.00-24 8 in. rim (203 mm)	78.75 in. (2.00 m)	81.125 in. (2.06 m)	7 ft. 10.75 in. (2.41 m)	7 ft. 10.25 in. (2.39 m)	23.5 in. (597 mm)
15.5-25 13 in. rim (330 mm)	81.38 in. (2.07 m)	83.75 in. (2.13 m)	8 ft. 3.75 in. (2.53 m)	8 ft. 3.25 in. (2.52 m)	22.9 in. (582 mm)

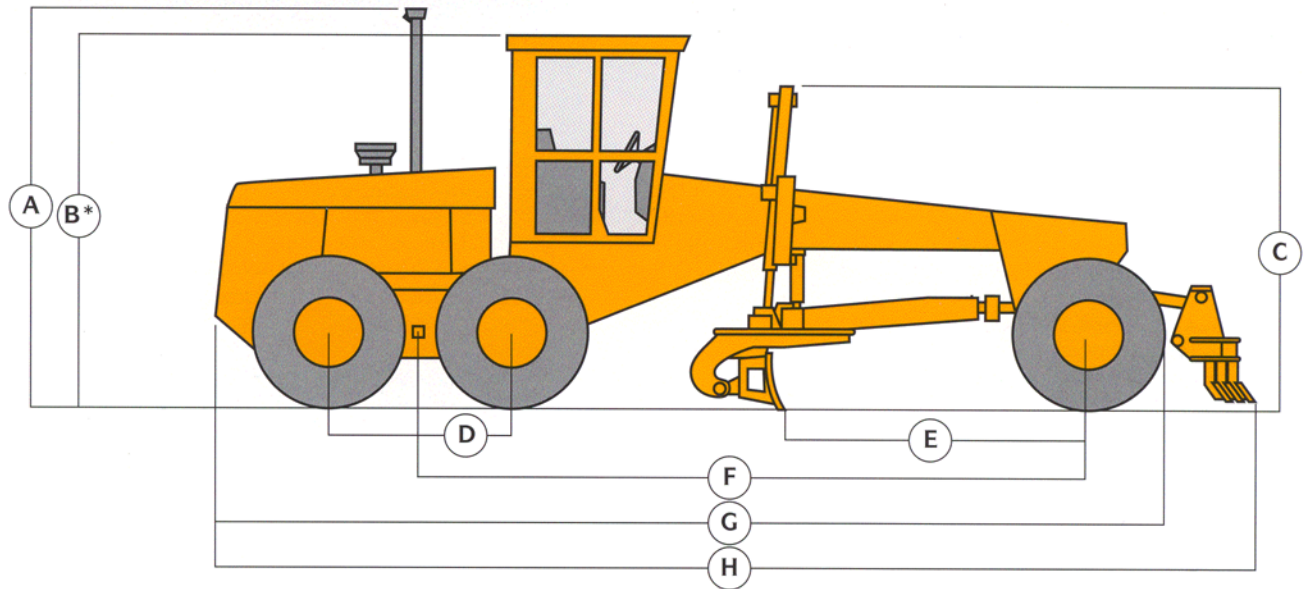
CAPACITIES

Fuel tank.....50 gal. (189 L)
 Cooling system.....5.6 gal. (21.1 L)
 Engine lubrication, including filter.....12 qt. (11 L)
 Transmission and hydraulic system (refill).....14 gal. (53 L)
 Tandem housings (each).....5 gal. (19 L)
 Circle gearbox.....1.5 qt. (1.4 L)

OPERATING WEIGHTS

SAE	On Front Wheels	On Rear Wheels	Total
With standard equipment.....	5,725 lb. (2597 kg)	14,500 lb. (6577 kg)	20,225 lb. (9174 kg)
With standard equipment and scarifier.....	6,775 lb. (3073 kg)	14,328 lb. (6449 kg)	21,103 lb. (9572 kg)
With standard equipment and wheel weights.....	5,725 lb. (2597 kg)	15,100 lb. (6849 kg)	20,825 lb. (9446 kg)
With standard equipment, scarifier and wheel weights.....	6,775 lb. (3073 kg)	14,928 lb. (6771 kg)	21,703 lb. (9844 kg)
Typically equipped operating weights range up to	22,528 lb. (10 219 kg)		

DIMENSIONS



Key:

A	Height to top of exhaust	10 ft. 1.5 in. (3.09 m)
B	Height to top of cab	10 ft. 2 in. (3.09 m)
C	Height to top of blade lift cylinders	8 ft. 3.5 in. (2.53 m)
D	Tandem axle spacing	4 ft. 8.75 in. (1.44 m)
E	Bladebase	7 ft. 8 in. (2.34 m)
F	Wheelbase	17 ft. 4 in. (5.28 m)
G	Overall length	24 ft. 4.5 in. (7.43 m)
H	Overall length with scarifier	26 ft. 8.5 in. (8.14 m)

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

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. Five blade lift arm positions provide excellent blade positioning. Blade components are fully adjustable.

BLADE RANGE

Lift above ground	13 in. (330 mm)
Blade side shift, right	26.75 in. (679 mm)
left	31.25 in. (794 mm)
Shoulder reach outside wheels (frame straight):	
Right	71.5 in. (1.82 m)
Left	77.25 in. (1.96 m)
Pitch at ground line	32 deg. forward

MAINFRAME

Welded box construction.	
Section size, maximum	16.5 x 8 in. (419 x 203 mm)
minimum	12.5 x 8 in. (318 x 203 mm)
Weight per ft., maximum	99 lb.-ft. (147.3 kg/m)
minimum	91 lb.-ft. (135.4 kg/m)

DRAWBAR

Welded box construction with universal swivel.

CIRCLE

Welded construction, heat-treated for strength.

Circle diameter	54 in. (1.37 m)
Rotation	360 degrees
Drive	hydraulic motor and worm gear with positive position lock
Sideshift, right	27.0 in. (686 mm)
left	28.5 in. (724 mm)

MOLDBOARD

High-strength, wear-resistant, high-carbon steel.

Length	12 ft. (3.66 m)
Height	22 in. (559 mm)
Thickness	0.62 in. (16 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	46 in. (1.17 m)
Number of teeth	5 standard, 9 optional
Lift above ground	22.5 in. (575 mm)
Maximum penetration	8.75 in. (222 mm)
Shank size	1 x 3 in. (25 x 76 mm)

BULLDOZER

Mounts on scarifier linkage; can be angled 22 degrees right or left by using frame articulation.

Length	93 in. (2.36 m)
Height	23.5 in. (597 mm)
Lift above ground	27 in. (686 mm)
Penetration	4 in. (102 mm)

ADDITIONAL STANDARD EQUIPMENT

Engine/Power Train:

Air precleaner
Antifreeze
Electric fuel shutoff
Fan guard
Fuel filter
Transmission tow disconnect
13.00-24, 8 PR, G2 tires

Electrical System:

40 amp (1120 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 side shift
Frame articulate
Wheel lean
Hydraulic differential lock
Hydraulic oil cooler
Hydraulic pump, 3.0 cu. in. (50 cu. cm), 32.7 gpm (102 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
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
Park brake engaged (in gear) warning light with audible alarm

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 22 in. (3.66 m x 559 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
Engine/Power Train:		
Altitude Compensating Turbocharger	42	19
Cold weather ether starting aid	3	1
Coolant heater	2	1
Operator's Station:		
Cab, full height with ROPS	82	37
Canopy, low profile with ROPS	-226	-103
Control conversion (moves LH blade control to RH side)	2	1
Defroster fan	4	2
Defroster fans (dual)	8	4
Floor mat	9	4
Heater - 20,000 Btu/hr (5.9 kW)	16	7
Heater - 40,000 Btu/hr (11.7 kW)	31	14
Seat belt, 3 in. (76 mm)	3	1
Seat, deluxe suspension vinyl with armrests	90	41
Seat, deluxe suspension cloth with armrests	90	41
Windshield washers, front and rear	3	1
Wipers/washers, lower front windows	7	3
Wiper, rear window	5	2
Electrical System:		
Beacon wiring and switch	2	1
Blade lights (2 mounted under cab)	4	2
Work lights (2 front, 2 rear)	8	4
24 volt to 12 volt converter	3	1

	lb.	kg
Hydraulics:		
Auxiliary function valve for front-mounted equipment	3	1
Hydraulics for front-mounted equipment	68	30
Moldboards:		
12 ft. x 22 in. (3.66 m x 559 mm) moldboard with .75 x 6 in. (19 x 152 mm) through hardened Dura-Max cutting edge	100	45
Extensions, 2 ft. (610 mm) right or left (less cutting edge)	185	100
Overlay end bits, 6 in. (152 mm), 1 pair	62	28
Attachments:		
Bottom guard	160	73
Engine side shields	92	42
Front-mounted dozer blade - 93 x 23.5 in. (2.36 m x 597 mm)	650	295
4.0 in. (102 mm) dig below ground		
27.0 in. (686 mm) lift above ground		
Front-mounted scarifier with 5 teeth	878	398
Toolbox	14	6
Tires:		
13.00-24, 10 PR, G2 tires on 8-in. 3-piece rims	35	16
15.5-25, 8 PR, L2 tires on 13-in. rims	323	146

ADDITIONAL AVAILABLE EQUIPMENT*

Automatic blade controls
Compactors
Dozer blades

Fenders
Grade and slope indicators
Push blocks

Slopers
Snowplows and wings
Tire chains

Windrow eliminators

* See your John Deere dealer for further information.