



672B

MOTOR GRADER



Model shown may include options

**SAE Net
Horsepower**

135 hp
(101 kW)

Transmission

Direct Drive
Power Shift

**SAE
Operating
Weight**

30,230 lb.
(13,710 kg)

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 @ 2300 rpm	135 SAE net hp (101 kW)
	142 SAE gross hp (106 kW)
Turbocharged	standard
Number of cylinders	6
Displacement	414 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 1500 rpm (30% torque rise)	400 lb-ft (542 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	2.2	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 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	4.0 cu. in. (65 cm ³)
Rated flow at 2300 engine rpm	37.6 gpm (142 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	70 gal.	(265 L)
Cooling system	7 gal.	(26.5 L)
Engine lubrication, including filter	20 qt.	(18.9 L)
Transmission and hydraulic system (refill)	14 gal.	(53 L)
Tandem housings (each)	5 gal.	(18.9 L)
Circle gearbox	3 qt.	(2.8 L)

OPERATING WEIGHTS

SAE	On Front Wheels	On Rear Wheels	Total
With standard equipment	9,320 lb. (4 227 kg)	20,910 lb. (9 483 kg)	30,230 lb. (13 710 kg)
With standard equipment and scarifier	11,310 lb. (5 129 kg)	20,650 lb. (9 365 kg)	31,960 lb. (14 494 kg)
With standard equipment, scarifier and ripper	10,570 lb. (4 794 kg)	23,940 lb. (10 857 kg)	34,510 lb. (15 651 kg)
Typically equipped operating weights range up to 36,100 lb. (16 372 kg)			



BLADE

All blade sliding components are precision machined for close adjustment with minimum looseness. Replaceable wear strips eliminate component wear and the need for greasing. All structural members are designed to handle both low speed dirt work and high speed snow removal.



VISIBILITY

Excellent visibility and low noise, along with numerous climate control options, result in a comfortable and productive work environment. Unmatched visibility to and through the working tool allow the operator to precisely locate and control blade position.



CONTROL CONSOLE

Industry standard control locations with independently adjustable console and steering wheel provide the most comfortable operating position. The electronic monitoring system supplies routine operational information and warns of impending critical function problems before they become catastrophic.



ALL-WHEEL DRIVE

All-wheel drive motor graders are excellent fine grading machines that perform in all traction conditions. Increased front-end control, reduced tandem wheel slip, high drawbar pull and side slope operation all provide higher productivity than tandem drive graders. The John Deere patented automatic all-wheel-drive control system enables the operator to "set and forget" front-wheel aggressiveness in heavy dirt work, fine finish grading and high-speed snow plowing.

FRONT-WHEEL DRIVE

Another John Deere innovation — automatic front-wheel drive increases tractive effort and front-end control in all working conditions. System includes a variable displacement pump, reversible wheel motors, flow divider, free-wheel at transport speeds and operator controlled, 15-position rotary aggressiveness switch.

Standard system: effective in gears 1-4

Hydraulic pump 5.30 in³ (83 cm³)
Wheel motors 2.03 in³ (33 cm³)

Optional high speed system: effective in gears 1-6

Hydraulic pump 6.00 in³ (98 cm³)
Wheel motors 2.03 in³ (33 cm³)

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 electric 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

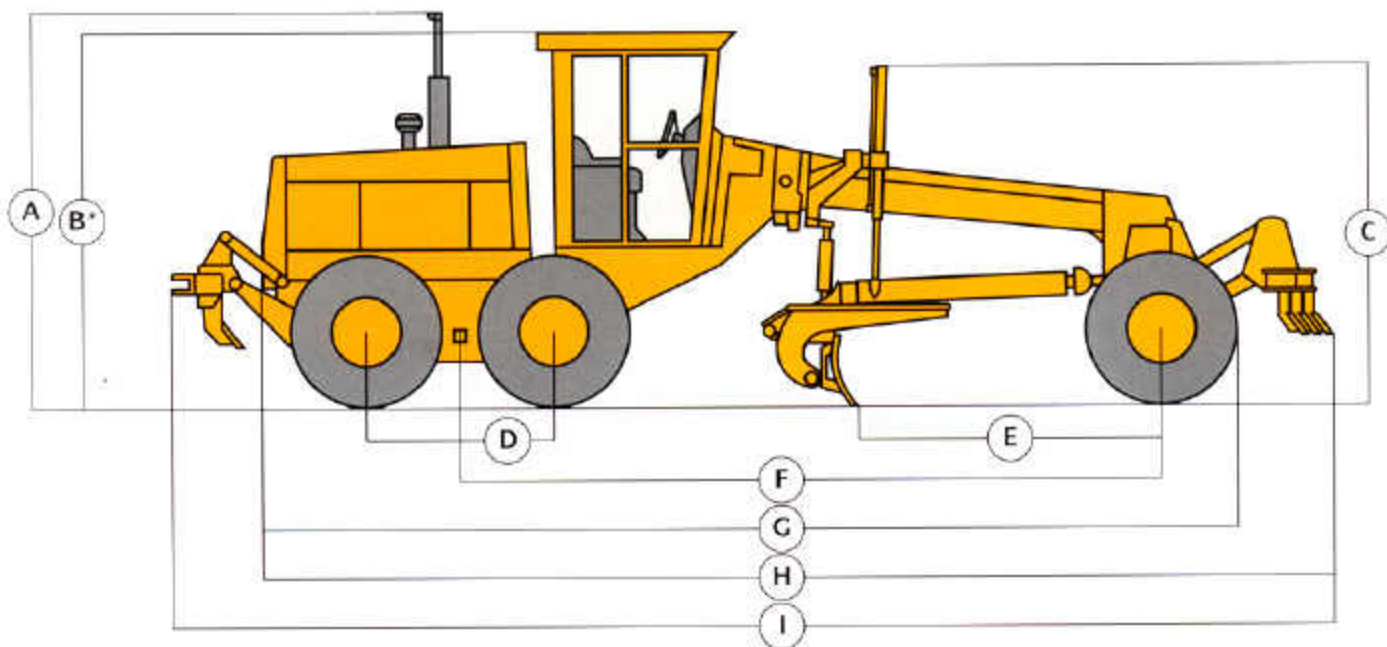
Articulation indicator
Cab, low profile with ROPS,
cushioned vinyl seat and
seat belt.
Dual-level monitor system
First level warning:
(Red STOP light, audible
alarm and white function
indicator light)
Low engine oil pressure
Very high engine coolant
temperature

Low brake pressure
Very high transmission
temperature
Engaged park brake (in gear)
Second level warning:
(Yellow CAUTION light
and white function
indicator light)
Restricted engine air filter
Low electrical voltage
High transmission
temperature

Low transmission clutch
pressure
Restricted transmission
filter
Restricted hydraulic filter
Disengaged lift arm lock
Function indicator only:
(Green function
indicator light)
Engaged differential lock
Turn signals
Hazard warning signals

Engine air precleaner
Front windshield wiper
Fuel gauge
Horn
Hourmeter
Lights, driving
Lights, stop and tail
Mirror, rearview, inside
Mirrors, outside, rearview,
convex, both sides
Reverse warning alarm
Tow disconnect
Turn signals/hazard
warning lights

DIMENSIONS



Key

A	Height to top of exhaust	10 ft. 7.5 in. (3.24 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

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. (3.65 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 150 mm)

OPTIONAL SPECIAL EQUIPMENT WITH APPROXIMATE WEIGHTS

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

	lb.	kg		lb.	kg
Air conditioner with heavy-duty alternator	177	80	Moldboard w/through-hardened Dura-Max cutting edges:		
Alternator, 50-amp (1400 W)	17	8	12-ft. (3.66 m) w/.88 x 8 in. (19 x 203 mm) cutting edge	86	39
Auxiliary function valve (rear mounted)	50	23	14-ft. (4.27 m) w/.62 x 6 in. (16 x 152 mm) cutting edge	210	95
Beacon wiring and switch	2	1	14-ft. (4.27 m) w/.88 x 8 in. (19 x 203 mm) cutting edge	316	143
Blade, front dozer	1490	676	Moldboard extensions, 2-ft. (610 mm), right or left (less cutting edge)	220	100
Bottom guard, general purpose	170	77	Overlay end bits (1 pair), 6 in. (152 mm)	62	28
Bottom guard, heavy-duty with rear hitch	610	277	Overlay end bits (1 pair), 8 in. (203 mm)	77	35
Cab, full height with ROPS	82	37	Rear hitch	61	28
Canopy, low profile with ROPS	-226	-103	Rims for 17.50-25 tires	442	200
Cold-weather starting aid	3	1	Ripper, rear mounted with hitch and 3 shanks	2500	1134
Control conversion (moves LH blade control to RH side)	2	1	Scarifier with five teeth, 1 x 3 in. (25 x 76 mm)	1730	785
Dura-Max through-hardened cutting edge, 3/4 x 8 in. (19 x 203 mm)	8.5 lb/ft (13 kg/m)		Seat belt, 3-in. (76 mm)	3	1
Engine side shields	60	27	Seat, deluxe suspension, cloth covered	90	41
Fan, defroster	4	2	Seat, deluxe suspension, vinyl covered	90	41
Fans, dual defroster	8	4	Tires:		
Front-wheel drive, high speed	34	15	14.00-24, 12 PR, C2	270	122
Heater, coolant	2	1	17.50-25, 12 PR, L2	528	239
Heater, cab, 20,000 Btu/hr (5.9 kW)	16	7	Toolbox	11	5
Heater, cab, 40,000 Btu/hr (11.7 kW)	31	14	Washer, front and rear windshield	15	7
Heater, roof-mounted, 25,000 Btu/hr (7.3 kW) (add to air conditioner)	17	8	Weight, front	600	272
Hydraulic pump, pressure controlled, variable displacement, 6.00 in ³ (98 cm ³)	50	23	Wiper, rear window	5	2
52.4 gpm (198 L/min)			Wipers, lower front windows	7	3
Lights, 2 blade	4	2			
Lights, work, 2 front/2 rear floods	12	5			
Mat, floor	9	4			

ADDITIONAL AVAILABLE EQUIPMENT*

Automatic blade controls	Fenders	Slopers	Windrow eliminators
Compactors	Grade and slope indicators	Snow plows and wings	* See your John Deere dealer for further information
Dozer blades	Push blocks	Tire chains	

JOHN DEERE 'BEST VALUE' EXTRAS

Best parts support – Twelve regional parts depots in North America and others around the world put parts support near your job no matter where in the world it is.

A computerized FLASH™ parts locating system linking these depots to dealerships can find out-of-stock parts in a hurry and get them into your hands fast. Usually within 24 hours.

Best service backup – Dealer service technicians are regularly schooled, at our modern facility in Davenport, Iowa, or by professionals in the field, to diagnose quickly and repair efficiently.

If they're stumped, a phone call to DTAC (Dealer Technical Assistance Center), puts them in touch with a staff of pros at the factory who help them find a solution quickly.

Best dealers – Your John Deere dealer has made a significant commitment to being the best equipment supplier you can work with.

This is a dollars-and-cents commitment in parts inventory, in service facilities, in field service trucks. It's a sweat-and-

blood commitment in dedicated, skilled and highly trained and motivated personnel in each and every department at the dealership.

But what sets John Deere dealers apart from all the rest is something more, a factor somewhat difficult to measure . . . a caring attitude, and a sincere desire to be the best at meeting the needs of each individual customer.

John Deere Finance Plans – Whether you rent, lease or buy John Deere equipment, your dealer can explain the John Deere options available. One-stop options that let you free up operating capital, keep other lines of credit open.

Best warranty protection – All John Deere construction equipment has a 6-month warranty on the entire machine and a full 24-month warranty on the power train. The SECURE® program, a John Deere service product, is offered for repair coverage after warranty concludes. Full machine or power train coverage is available for a variety of time periods to meet your needs. Your dealer will explain the details.

TED B. MILLER CO. INC.

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Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 70 020, using No. 2-D fuel at 35 API gravity. No derating is required up to 10,000 feet (3050 m) altitude. Gross power is without cooling fan.

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 a unit with 13.00-24, 8 PR tubeless tires, 12-ft. (3.65 m) moldboard with .62 x 6 in. (16 x 150 mm) cutting edge, and standard equipment. Weights include lubricants, coolants, full fuel tank and 175 lb. (79 kg) operator.

