

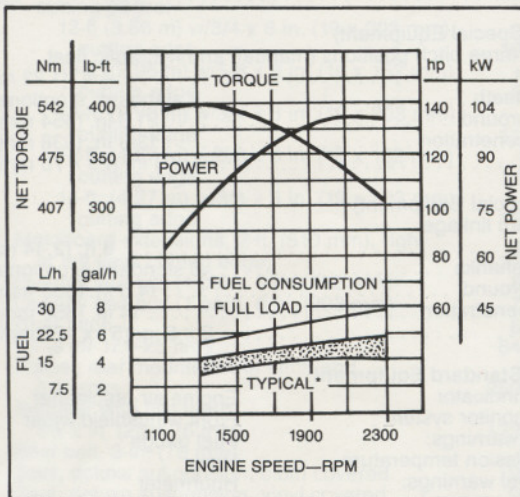


## 672B MOTOR GRADER



Model shown may include options

### ENGINE PERFORMANCE



\*Depending on operating variables

### FEATURES

135 SAE net hp (101 kW) turbocharged John Deere diesel engine

28,100 to 35,541 lb. (12 746 to 16 121 kg) operating weight with typical options and special equipment

Choice of all-wheel drive systems: standard system to 6.4 mph (10.3 km/h); optional system to 10.9 mph (17.5 km/h)

Planetary power shift transmission; 8 speeds forward, 4 reverse

Articulated frame steering

Power wet-disk brakes and differential lock-unlock

Hydraulic control of all blade and machine functions—lockout valves prevent blade drift - blade float adds versatility

12-ft. (3.65 m) moldboard with 0.62 x 6 in. (16 x 152 mm) through-hardened Dura-Max® cutting edge

7-position lift arms allow blade positioning for 90-degree bank cuts, left or right, in approximately one minute

Cab or canopy with integral rollover protective structure (ROPS)

New, fully adjustable control console and tilt steering wheel

Dual level monitor system improves machine protection

### ADD VERSATILITY WITH:

- Scarifier
- Rear-mounted ripper
- Snow plow and wing
- Dozer blade



## 672B MOTOR GRADER SPECIFICATIONS

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 6-in. (152 mm) cutting edge, and standard equipment. Weights include lubricants, coolants, full fuel tank and 175 lb. (80 kg) operator.

**Rated Power @ 2300 rpm:** SAE DIN 70 020  
 Net ..... 135 hp (101 kW) 101 kW  
 Gross ..... 142 hp (106 kW)

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 @ 35 API gravity. No derating is required up to 10,000 feet (3050 m) altitude. Gross power is without cooling fan.

**Engine:** John Deere 6414T  
 Type ..... 4-stroke cycle, turbocharged diesel  
 Bore and stroke ..... 4.19 x 5.00 in. (106.5 x 127 mm)  
 No. of cylinders ..... 6  
 Displacement ..... 414 cu. in. (6.785 L)  
 Compression ratio ..... 16.2 to 1  
 Maximum net torque @ 1300 rpm ..... 400 lb-ft (542 Nm) (55.3 kg-m)  
 Lubrication ..... Pressure system w/full-flow filter  
 Cooling fan ..... Suction type  
 Air cleaner w/restriction indicator ..... Dual element, dry  
 Electrical system ..... 24 volt w/42-amp alternator  
 Batteries (two 12 volt) ..... Reserve capacity: 180 minutes

**Transmission** ..... Direct drive, planetary power shift with foot inching pedal

**Travel Speeds:** (2300 engine rpm, 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		

**Differential Lock:** Foot-operated hydraulically actuated

**Rear Drive:** Inboard planetary final drives. Oscillating tandems with 2-in. (51 mm) pitch roller chain in oil bath.

**Front Drive** ..... Standard and optional systems are available to match application. Both use a variable-displacement pump, reversible motor in each wheel, and flow divider to assure front wheel traction. System has two operational modes (normal and aggressive) and free-wheels at transport speeds or when not in use.

Standard system—effective in gears 1-4 ..... 5.03 in<sup>3</sup> (89 cm<sup>3</sup>) pump  
 ..... 2.03 in<sup>3</sup> (33 cm<sup>3</sup>) motors

**Front Axle:** Fabricated steel box frame with steel spindles  
 Oscillation (total) ..... 32 deg.  
 Wheel lean (either direction) ..... 20 deg.

**Steering:**  
 Front wheels ..... Full hydraulic power system (Allows steering without engine power)  
 Frame articulation ..... Hydraulically actuated—25 deg. left or right  
 Minimum turning radius ..... 22 ft. 6 in. (6.86 m)

**Brakes:**  
 Service ..... Foot-operated, hydraulically actuated, wet-disk, effective on 4 tandem wheels  
 Parking ..... Hand-operated, mechanical, dry-disk, effective on 4 tandem wheels

**Hydraulic System:** Closed center w/pressure controlled 4.0 in<sup>3</sup> (65 cm<sup>3</sup>) variable-displacement pump....37.6 gpm (142 L/min) at 2300 engine rpm

**Moldboard:** Wear resistant high-carbon steel  
 Length ..... 12 ft. (3.65 m)  
 Height ..... 24 in. (610 mm)  
 Thickness ..... 0.88 in. (22 mm)

**Cutting Edge:** Dura-Max through-hardened curved steel  
 Thickness and width ..... 0.62 x 6 in. (16 x 152 mm)

**Blade Range:**  
 Lift above ground ..... 19.0 in. (483 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 ..... 82.0 in. (2.08 m)  
 42 Pitch at ground line ..... 44 deg. forward  
 ..... 10 deg. back

**Blade Lift Mechanism:**  
 Control ..... Dual-lever, hydraulic w/float position

**Lift Arms:** Nodular cast iron  
 Positions ..... 7  
 Control ..... Hydraulic, hand operated

**Circle:** Fabricated steel construction  
 Circle diameter ..... 58 in. (1.47 m)  
 Rotation ..... 360 deg.  
 Drive ..... Hydraulic motor and worm gear w/positive position lock  
 Sideshift, right ..... 27.0 in. (686 mm)  
 left ..... 28.5 in. (724 mm)

**Drawbar:** Welded box section, 3.5 x 7 x 0.375 in. (89 x 178 x 9.5 mm) wall w/ball and socket draft connection

**Main Frame:** Welded box section from articulation joint to front axle support  
 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. (175.5 kg/m)  
 Minimum vertical section modulus ..... 117 in<sup>3</sup> (1917 cm<sup>3</sup>)

### Dimensions:

Tire Size	Wheel Tread		Overall Width		Ground Clearance (Front Axle)
	Front	Rear	Front	Rear	
13.00-24 8 in. rim (203 mm)	76.15 in. (1.93 m)	79.61 in. (2.02 m)	7 ft. 9.5 in. (2.37 m)	7 ft. 10 in. (2.39 m)	22 in. (559 mm)
14.00-24 10 in. rim (254 mm)	76.15 in. (1.93 m)	79.61 in. (2.02 m)	7 ft. 11.5 in. (2.43 m)	8 ft. (2.44 m)	22.5 in. (572 mm)
17.5-25 14 in. rim (356 mm)	78.40 in. (1.99 m)	82.37 in. (2.09 m)	8 ft. 5 in. (2.57 m)	8 ft. 6 in. (2.59 m)	23.2 in. (589 mm)

**Capacities:** U.S. Liters  
 Fuel tank ..... 70 gal. 265.0  
 Cooling system ..... 7 gal. 26.5  
 Engine lubrication, including filter ..... 20 qt. 18.9  
 Transmission and hydraulic system (refill) ..... 14 gal. 53  
 Tandem housings (each) ..... 5 gal. 18.9  
 Circle gearbox ..... 3 qt. 2.8

**Scarifier:** (Special Equipment)  
 V-type with three pitch positions (manual) and 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:** (Special Equipment)  
 Parallelogram linkage  
 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  
 Dual-level monitor system  
 Two-level warnings:  
 Transmission temperature  
 Single-level warnings:  
 Air filter restricted  
 Engine coolant temperature  
 HFWD filter restricted  
 Lift arm lock disengaged  
 Low brake pressure  
 Low electrical voltage  
 Low engine oil pressure  
 Low HFWD charge pressure  
 Low transmission clutch pressure  
 Parking brake on (in gear)  
 Transmission filter restricted  
 Indicator only:  
 Differential lock engaged  
 Engine air precleaner  
 Front windshield wiper  
 Fuel gauge  
 Horn  
 Hourmeter  
 Lights, driving  
 Lights, stop and tail  
 Mirror, rear view, inside  
 Reverse warning alarm  
 ROPS cab, low profile  
 w/cushioned vinyl seat  
 and seat belt  
 Tow disconnect  
 Turn signals



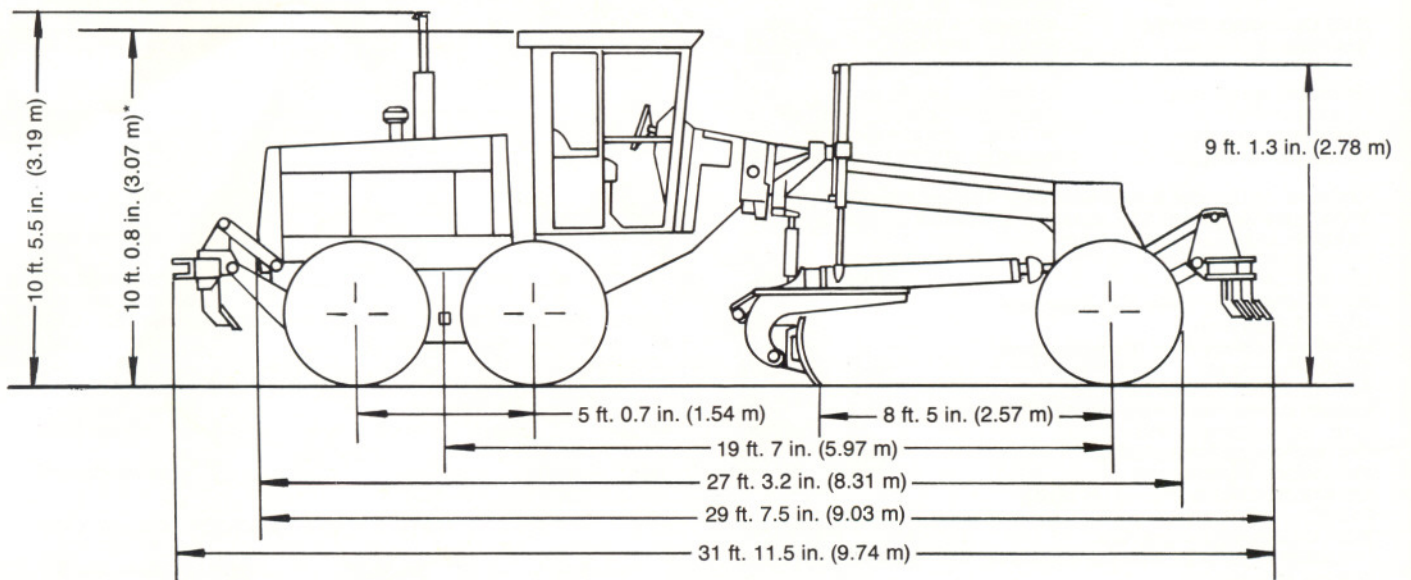
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SAE Operating Weight	On Front Wheels	On Rear Wheels	Total
Standard equipment . . . . .	8700 lb. (3946 kg)	19,400 lb. (8800 kg)	28,100 lb. (12 746 kg)
Standard equipment and scarifier . . . . .	10,640 lb. (4826 kg)	19,190 lb. (8704 kg)	29,830 lb. (13 531 kg)
Standard equipment scarifier and ripper . . . . .	9910 lb. (4495 kg)	22,420 lb. (10 170 kg)	32,330 lb. (14 665 kg)

**Optional or Special Equipment with Approximate Weights:**  
(Add these weights to SAE standard equipment operating weight to obtain total operating weights.)

	lb.	kg
Air conditioner w/heavy-duty alternator	177	80
Alternator, 50 amp	17	8
Auxiliary function valve (rear mounted)	50	23
Blade, front dozer	1490	676
Bottom guard, general purpose	170	77
Bottom guard, heavy-duty w/rear hitch	610	277
Cab, full height w/ROPS	82	37
Canopy, low profile w/ROPS	-226	-103
Cold-weather starting aid	3	1
Control conversion (moves LH blade control to RH side)	0	0
Dura-Max through-hardened cutting edge, 3/4 x 8 in. (19 x 203 mm)	8.5 lb/ft	(13 kg/m)
Engine side shields	50	23
Fan, defroster	4	2
Fan, dual defroster	8	4
Front wheel drive: high-speed system effective in gears 1-6; 6.00 in <sup>3</sup> (98 cm <sup>3</sup> ) pump, 2.03 in <sup>3</sup> (33 cm <sup>3</sup> ) motors	34	15
Heater, coolant	0	0
Heater, cab, 20,000 Btu/hr (5.9 kW)	16	7
Heater, cab, 40,000 Btu/hr (11.7 kW)	31	14
Heater, roof-mounted, 25,000 Btu/hr (7.3 kW) (add to air conditioner)	17	8
Hydraulic pump, pressure controlled, variable displacement, 6.00 in <sup>3</sup> (98 cm <sup>3</sup> ) 54.8 gpm (207 L/min) @ 2300 engine rpm	50	23
Lights, 2 blade	4	2
Lights, work, 2 front/2 rear floods	12	5
Mat, floor	9	4
Mirrors, outside, rear view, convex, both sides	12	5
Moldboard w/through hardened Dura-Max cutting edges:		
12-ft (3.66 m) w/3/4 x 8 in. (19 x 203 mm) cutting edge	106	48
13-ft. (3.96 m) w/5/8 x 6 in. (16 x 152 mm) cutting edge	60	27
13-ft. (3.96 m) w/3/4 x 8 in. (19 x 203 mm) cutting edge	116	53
14-ft. (4.27 m) w/5/8 x 6 in. (16 x 152 mm) cutting edge	146	66
14-ft. (4.27 m) w/3/4 x 8 in. (19 x 203 mm) cutting edge	155	70
Moldboard extensions, 2-ft. (610 mm), right or left (less cutting edge)	220	100
Overlay end bits (1 pair), 6 in. (152 mm)	62	28
Overlay end bits (1 pair), 8 in. (203 mm)	77	35
Rear hitch	67	30
Rims for 17.5-25 tires	645	293
Ripper, rear mounted with hitch and 3 shanks	2500	1134
Scarifier with five teeth, 1 x 3 in. (25 x 76 mm)	1730	785
Seat belt, 3-in. (76 mm)	3	1
Seat, deluxe suspension, cloth covered	90	41
Seat, deluxe suspension, vinyl covered	90	41
Tires:		
13.00-24, 8 PR, G2	—	—
13.00-24, 12 PR, G2	60	27
14.00-24, 10 PR, G2	194	88
14.00-24, 12 PR, G2	270	122
17.50-25, 12 PR, L2	528	239
Toolbox	11	5
Washer, front and rear windshield	3	1
Weight, front	600	272
Wiper, rear window	5	2

# 672B MOTOR GRADER DIMENSIONS



\*Add 8.3 in. (210 mm) for full height cab  
Add 1.0 in. (25.4 mm) for cabs with air conditioning