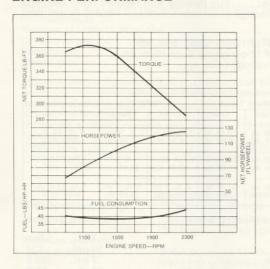


JD670 MOTOR GRADER



ENGINE PERFORMANCE



FEATURES

125 SAE net hp (126.7 PS)

12-ft. (3.66 m) blade standard; 13-ft. (3.96 m) and 14-ft. (4.27 m) blades and 2-ft. (610 mm) extensions available

Power Shift transmission; 8 speeds forward, 4 reverse

Articulated frame steering

Differential lock-unlock

22-ft. (6.71 m) turning radius

All-hydraulic control of blade and machine functions

Closed-center hydraulic system with built-in, positive hydraulic locks provides instant response without blade drift or creep

Hydraulically controlled, 7-position lift arms let you position blade for 90-degree bank cuts, left or right, in approximately one minute, without leaving the seat

Oscillating front axle and rear tandem

Hydraulic front-wheel lean

Roll-over protective structure (ROPS) w/cab

ADD VERSATILITY WITH:

Scarifier

Rear-mounted ripper

Snow plow and wing

Bulldozer

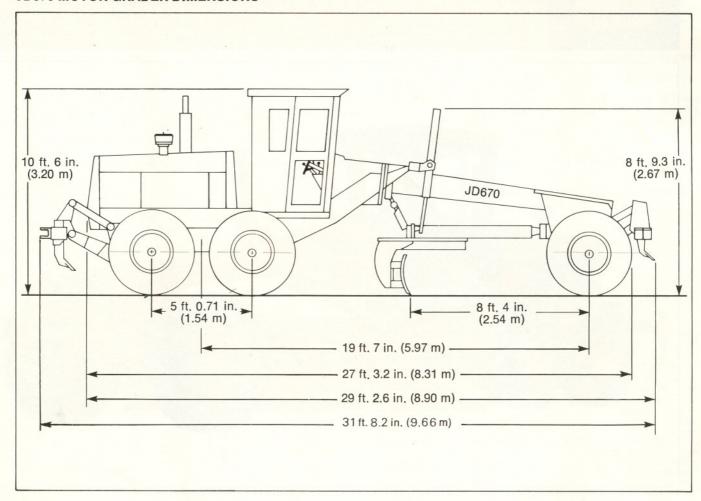
Automatic blade control

JD670 MOTOR GRADER SPECIFICATIONS

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with ICED and SAE Standards. Except where otherwise noted, these specifications are based on a unit equipped with 13.00-24, 8-ply rating, tubeless tires, 12 ft. (3.66 m) moldboard, and standard equipment:

| Power (at 2300 engine rpm): SAE Gross | Blade Range: Lift above ground | | |
|--|---|--|--|
| Net engine flywheel power is for an engine equipped with fan, air cleans water pump, lubricating oil pump, fuel pump, alternator, and muffler. Ti | he Shoulder reach outside wheels. | | |
| gross engine power is without fan. Flywheel power ratings are under S/standard conditions of 500-ft. altitude and 85°F. temperature, and DIN 70 0 conditions (non-corrected). No derating is required up to 10,000 ft. (3000 altitude. | AE Right or left | | |
| *In the international system of units (SI), power is expressed in kilowal (kW). | Lift Arms: Positions | | |
| Engine: John Deere turbocharged diesel, vertical 6-cylinde | Control | | |
| valve-in-head, 4-stroke cycl Bore and stroke | m) Rear mainframeWelded box section from articulation | | |
| Piston displacement | Top and bottom plate, width | | |
| Maximum torque @ 1300 rpm 372 lbft. (504 Nm)(51.4 kg/m NACC or AMA (U.S. Tax) horsepower | thickness | | |
| Main bearings | thickness | | |
| Cooling Pressurized, w/thermostat and fixed bypas Fan Suction | | | |
| Air cleaner w/restriction indicator | | | |
| Batteries (2) 12-volt | | | |
| Transmission . Power Shift, 8 forward and 4 reverse selection | | | |
| Differential Lock Foot-operated, hydraulically actuate Travel Speeds (2300 engine rpm, no tire slip): | Weight per ft. (m), min | | |
| Shift Lever Position mph km/h | (176 cm cubed) | | |
| Forward 1 2.3 3.6 2 3.2 5.1 | Tandems: Welded steel box section, 27x7.56 in. (686x192 mm) | | |
| 3 4.8 7.8 | Drive | | |
| 5 8.2 13.2 | Axle dia, at bearings | | |
| 6 10.5 17.0 | | | |
| 7 14.1 22.8 8 23.9 38.4 | Front Axle: Fabricated steel box-frame with steel spindles, tapered roller bearings | | |
| Reverse 1 2.8 4.5 2 3.9 6.3 | Diameter at bearing seats | | |
| 3 5.9 9.5 | Total oscillation | | |
| 4 7.6 12.3 | Wheel lean (either direction)20 deg. | | |
| Final Drives | Rear Drive Axle: Full floating with tapered roller bearings Diameter at bearings | | |
| effective on 4 tandem whee | ls Tires | | |
| ParkingFoot-operated, mechanical, dry-dis effective on 4 tandem whee | k, 14.00-24, 10- or 12-ply rating; 8- or 10-in. rim 17.5-25, 12-ply rating; 14-in. rim | | |
| Steering: FrontFull hydraulic power system | | | |
| Range | ht was a second | | |
| Rear | Size Front Rear Front Rear (Front Axle) | | |
| Turning radius | 13.00-24 76.60 in. 79.61 in. 7 ft. 10 in. 7 ft. 10 in. (1.94 m) (2.02 m) (2.34 m) (2.34 m) (559 mm) | | |
| Standby pressure | 2) 14.00-24 76.60 in. 79.61 in. 8 ft. 8 ft. 1 ft. 10.5 in. | | |
| PumpVariable-displacement, 35 gpm (132 l/min) @ 230 engine rp | | | |
| Circle: 4 ft. 10 in. (1.47 m) dia., welded angle Rotation | (2.01 m) (2.09 m) (2.59 m) (589 mm) | | |
| Drive | Height to top of steering wheel 7 ft. 4.4 in. (2.25 m) | | |
| Drawbar Welded box, 3.5x7x0.38 in. (89x178x10 mm) wal | Capacities U.S. Liters | | |
| W/ball and socket pive | ot Fuel tank | | |
| Length | Cooling system | | |
| Height | n) Transmission and hydraulic system28 gal. 106 n) Tandem housings (each) | | |
| Blade Lifting Mechanism: | | | |
| ControlDual-lever, hydraulic w/float positio Cylinders(2) 3.25 in. (82.6 mm) dia. bore; 44.87 in. (1.14 m | 1) | | |
| strok | 6 | | |

JD670 MOTOR GRADER DIMENSIONS



| Scarifier (Special Equipment): V-type for 4 ft. (1.22 m) cut with 3 manual pitch positions and hydraulic float Number of teeth (9 possible) |
|---|
| Ripper (Special Equipment): 8 ft. (2.44 m) cut width, parallelogram linkage, 2 manual shank vertical positions Number of shank pockets |

| SAE Operating Weight | On Front Wheels | On Rear Wheels | Total |
|--|--------------------|----------------------|---------------------------|
| Standard equipment | 7653 lb. (3471 kg) | 18,177 lb. (8245 kg) | 25,830 lb. (11 716 kg) |
| Standard equipment and scarifier | 8767 lb. | 18,177 lb. | 26,944 lb. |
| | (3977 kg) | (8245 kg) | (12 222 kg) |
| Standard equipment, scarifier and ripper | 7970 lb. | 21,474 lb. | 29,444 lb. |
| | (3615 kg) | (9741 kg) | (13 356 kg) |

Additional Standard Equipment:

Transistorized voltage regulator Lights (2 white front w/stop and taillight) Work lights (2 front and 2 rear floods) Turn signals Cigaret lighter

Cigaret lighter Horn Deluxe seat Air filter indicator Mechanical hourmeter Ether starting aid Vandal protection

Special Equipment: Scarifier

Below-cab blade lights
Bench seat
Cab heater
Cab defroster fan
ROPS canopy w/seat belt
Coolant heater
2-ft. (610 mm) moldboard
extensions, right or left
13-ft. (3.96 m) and 14-ft.
(4.27 m) moldboards
Overlay end bits

Gauges:
Water temperature
Transmission temperature
Transmission lube
Transmission pressure
Engine oil pressure
Fuel gauge
Precleaner
ROPS cab w/seat belt
Front windshield wiper
Rear windshield wiper
Floor mat
Engine side-shields

Transmission bottom guard
Rear-mounted ripper
w/drawbar hitch
Drawbar hitch
Toolbox
Articulation indicator
Engine disconnect
Reverse warning alarm
Sound baffled engine
side shields
Heavy-duty cutting edges
3-in. seat belt
Automatic blade control