



JD570 MOTOR GRADER



FEATURES

Standard 12-foot blade. Two-foot extensions available.
83-flywheel-horsepower John Deere Diesel engine.

Power shift transmission with 8 forward speeds, 4 reverse.
No clutching required. Top speed is 21 mph.

Frame steering with exclusive lock-unlock differential.
Eighteen-foot turning radius.

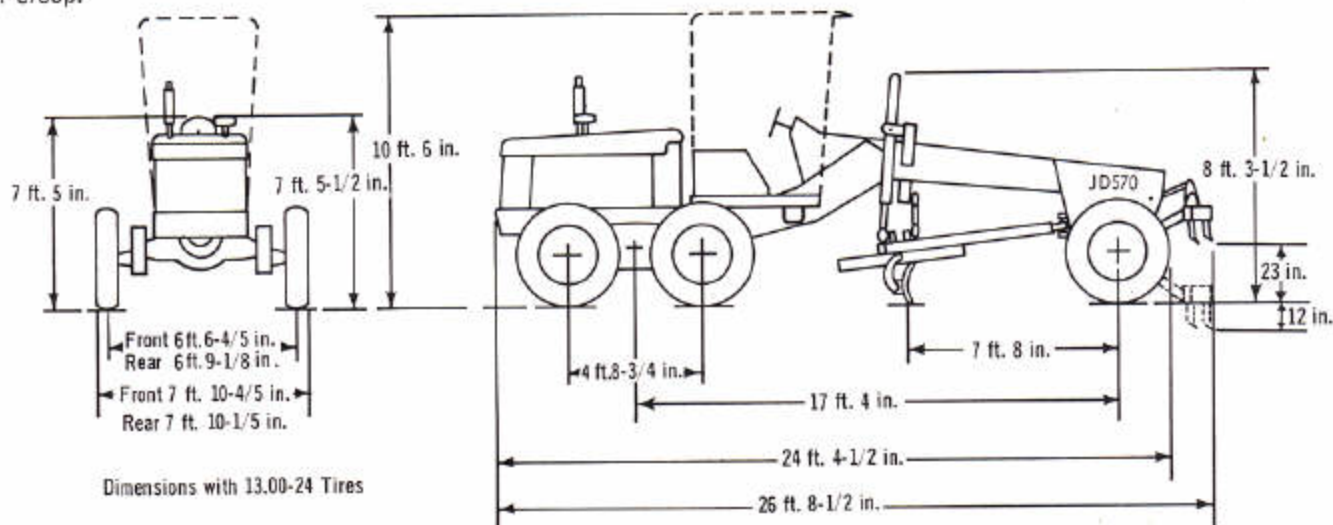
All-hydraulic control of blade and machine functions. Exclusive closed-center system with built-in, positive hydraulic locks gives instant response with no blade drift or creep.

Hydraulically controlled, 5-position saddle allows positioning blade for 90-degree bank cuts, left or right, in approximately one minute without leaving the seat.

Oscillating front axle and rear tandem with hydraulic front wheel lean and low center-of-gravity provide slope-hugging stability.

Excellent weight distribution. 30 percent forward, 70 percent rear for maximum traction.

Cab and scarifier are available as special equipment.



JD570 MOTOR GRADER SPECIFICATIONS

(Unit equipped with 13.00-24 8-ply-rating tubeless tires)

(Specifications and design subject to change without notice. Whenever applicable, specifications are in accordance with IEMC and SAE Standards)



Horsepower* (at 2,300 engine rpm):

Gross engine flywheel.....	88
Net engine flywheel, Engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, and alternator.....	83

*Maximum under SAE standard conditions of 560 ft. altitude and 85° F. temperature.

Travel Speeds (at 2,300 engine rpm):

	1	2	3	4	5	6	7	8
Forward (mph).....	2.03	2.88	4.48	5.82	7.42	9.67	12.8	21.4
Reverse (mph).....	2.36	3.36	5.24	6.77				

Engine: John Deere vertical, 6-cylinder, valve-in-head 4-stroke cycle, Diesel.

NACC horsepower for tax purposes.....	35.7
Working speed range.....	1,100 to 2,300 rpm
Maximum torque.....	212 lb. ft.
Rpm at maximum torque.....	1,300 rpm
Bore and stroke.....	3.86 in. x 4.33 in.
Piston displacement.....	303.6 cu. in.
Lubrication.....	Pressure system with full-flow filter
Crankshaft.....	Induction-hardened, counterbalanced, statically and dynamically balanced
Bearings.....	Steel-backed aluminum-lined, removable
Air Cleaner.....	Dry-type, dual element
Electrical system.....	12-volt with alternator
Starting.....	12-volt electric

Transmission: Power shift transmission, lock-unlock differential

Steering:

Type.....	Front: full hydraulic power steering. Rear: Hydraulic articulated frame steering (22 deg. right and 22 deg. left).
Turning radius.....	18 ft.

Brakes:

Service.....	Foot-operated, hydraulic-actuated, wet-disk type, effective on 4 tandem wheels
Parking.....	Hand-operated, mechanical, expanding dry shoe type, effective on 4 tandem wheels

Controls..... Full hydraulic

Circle... 5.25-in. x 1-in. x 4.62-in. x .75-in. welded angle, 54 in. dia. Hydraulic motor and worm gear with 360 deg. rotation.

Drawbar... Tapered box, max. 3-in. x 7-in. x .375-in. wall, with universal-type swivel.

Blade Range:

Lift above ground.....	12.25 in.
Blade side shift, hydraulic.....	Right—26.75 in. Left—31.25 in.
Shoulder reach outside wheels, hydraulic.....	Right—71.5 in. Left—77.25 in.
Shoulder reach outside wheels, manual.....	Right—68.25 in. Left—78.5 in.
Pitch.....	Manual: 5-position, 32-deg. total Hydraulic: 32-deg. total

Blade Lifting Mechanism... Hydraulic lift with 2 cylinders of 3 in. bore x 42 in. stroke. Saddle rotation: 5-position; secured by hydraulically controlled tapered locking pins. 45-deg. total rotation left and 45-deg. right.

Blade:

Length.....	12 ft.
Height.....	24 in.
Thickness.....	0.62 in.

Frame... Tapered box with section size maximum 16.5 in. x 8 in., minimum 12.5 in. x 6 in.

Weight per foot is average 91 lb./ft.; maximum 99 lb./ft.

Tandems... Welded box section of 21.75 in. x 6.5 in. steel. Driven by 1.75-inch pitch roller chain. Tandem axle diameters at bearings are 3.25 in. and 2.62 in.

Axle, Front... Fabricated steel A-frame with cast alloy steel spindles with diameters at bearing seats of 2.62 and 2.06 in. Tapered roller bearings. 30-degree total axle oscillation with front wheel lean of 20 deg. left and right.

Steering range.....	51 deg. left and right
Ground clearance w/10.00-24 tires.....	21.8 in.
w/13.00-24 tires.....	23.5 in.
w/15.5-25 tires.....	22.9 in.

Drive Axle, Rear..... Full floating with tapered roller bearings
Diameter at bearings..... 3.28 in.

Hydraulic System... Closed-center with variable-displacement piston-type pump. Capacity: 26.9 gpm at 2,300 rpm at 2,000 psi

Capacities:

Fuel tank.....	50 U.S. gal.
Cooling system.....	22 U.S. qt.
Crankcase (with or without filters).....	10 U.S. qt.
Transmission (with filters and including hydraulic system).....	21 U.S. gal.
Tandem housings (each).....	5 U.S. gal.
Worm gear box.....	1.5 qt.

Over-All Dimensions:

Length.....	24 ft. 4-1/2 in.
Width, front (10.00-24 tires).....	7 ft. 8-7/8 in.
(13.00-24 tires).....	7 ft. 10-3/4 in.
(15.5-25 tires).....	8 ft. 3-3/4 in.
rear (10.00-24 tires).....	7 ft. 8-1/4 in.
(13.00-24 tires).....	7 ft. 10-1/4 in.
(15.5-25 tires).....	8 ft. 3-1/4 in.
Height w/ cab.....	10 ft. 6 in.
Height w/o cab (to top of steering wheel).....	7 ft. 5 in.
Wheelbase.....	17 ft. 4 in.
Bladebase.....	7 ft. 8 in.
Tread, front (10.00-24 tires).....	6 ft. 6-3/4 in.
(13.00-24 tires).....	6 ft. 6-3/4 in.
(15.5-25 tires).....	6 ft. 9-3/8 in.
rear (10.00-24 tires).....	6 ft. 9-1/8 in.
(13.00-24 tires).....	6 ft. 9-1/8 in.
(15.5-25 tires).....	6 ft. 11-3/4 in.

Scarifier... "V"-type for 50-in. cut with 3 manual pitch positions:

Number of teeth.....	11
Lift above ground (hydraulic).....	22-1/2 in.
Penetration (hydraulic).....	8-3/4 in.
Maximum pressure.....	7,000 lb. down—20,000 lb. up
Shank size.....	1 in. x 3 in.

Weight Distribution:

	With Std. Equip.	With Std. Equip. and Cab
On front wheels.....	5,500 lb.	5,800 lb.
On rear wheels.....	12,600 lb.	13,600 lb.

Shipping Weights:

Grader with std. equip., cab, and scarifier.....	20,278 lb.
Grader with standard equipment.....	18,100 lb.
Scarifier.....	with 11 teeth: 878 lb. without teeth: 652 lb.

Standard Equipment:

- John Deere 303.6-cu.-in. Diesel engine
- 13.00-24, 8-ply rating tires, front and rear
- 12-volt electrical system
- 55 amp. alternator
- Fully transistorized regulator
- 2 batteries (172 amp. and 75 plates each)
- Electric starter
- Power-shift transmission
- Lock-unlock differential
- Power steering, front wheels
- Hydraulic articulated frame steering
- Power front wheel lean
- Power brakes (effective on 4 tandem wheels)
- Parking brake (effective on 4 tandem wheels)
- Power circle (360 deg. rotation)
- Power circle sideshift
- Power blade sideshift
- Power blade pitch
- 12-foot moldboard
- Running lights (2 white sealed beams, front) (2 red sealed beams, stop and tail)
- Electric hour meter
- Cigarette lighter
- Horn
- Air inlet cap
- Bottom guard (transmission)
- Dry-type air cleaner, dual-element
- Restriction indicator

- Deluxe seat
- Gauges:
 - Water temperature
 - Transmission temperature
 - Engine oil pressure

Options:

- 10-ft. moldboard
- 10.00-24, 8-ply rating tires, front and rear
- 15.5-25, 8-ply rating tires, front and rear
- Manual blade sideshift and blade pitch
- Air pre-cleaner

Special Equipment (Attachments):

- Scarifier
- Turn signals
- Work lights
- Fuel gauge
- Cab
- Cab heater
- Cab windshield wiper, front window
- Cab windshield wiper, rear window
- Cab defroster fan
- Floor mat
- Cold weather starting aids:
 - Engine coolant heater element
 - Ether starting attachment
- Moldboard extensions, 2-ft. right or 2-ft. left
- Engine coolant heater