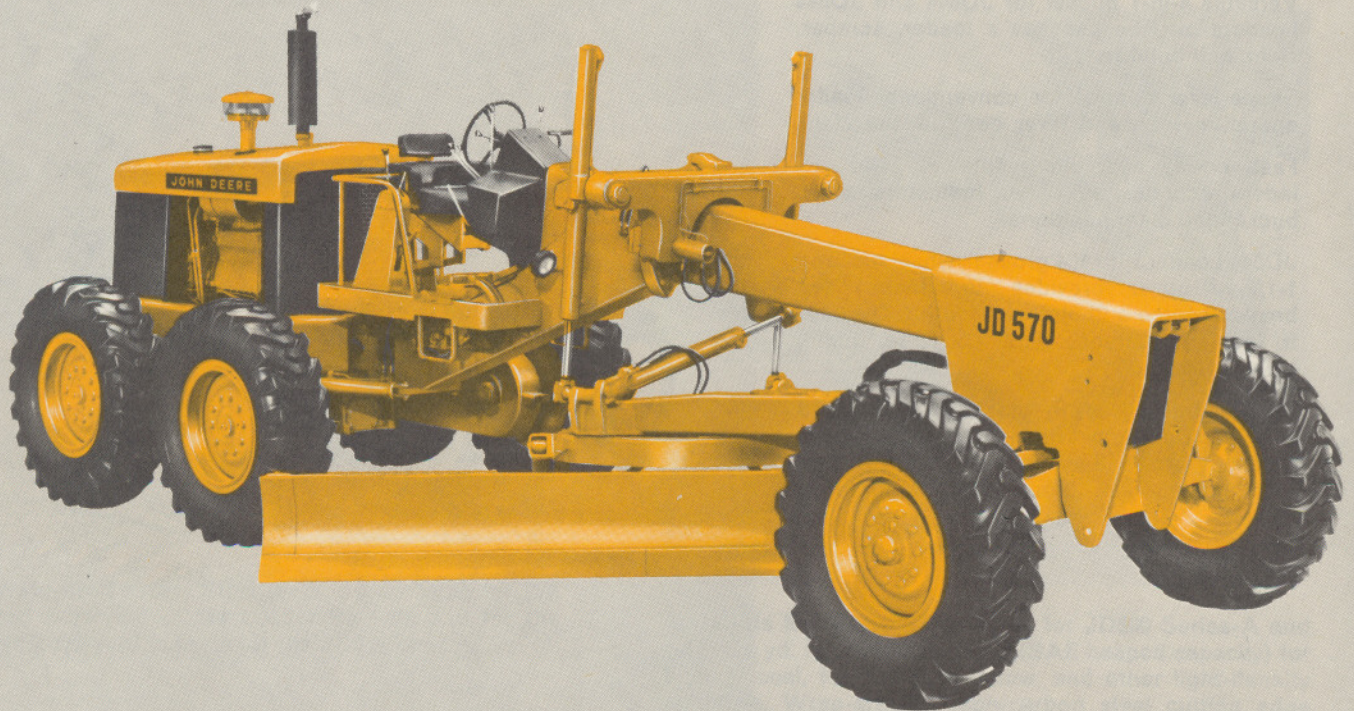




JD570 MOTOR GRADER



FEATURES

Standard 12-foot blade. Two-foot extensions available.
83-net-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.

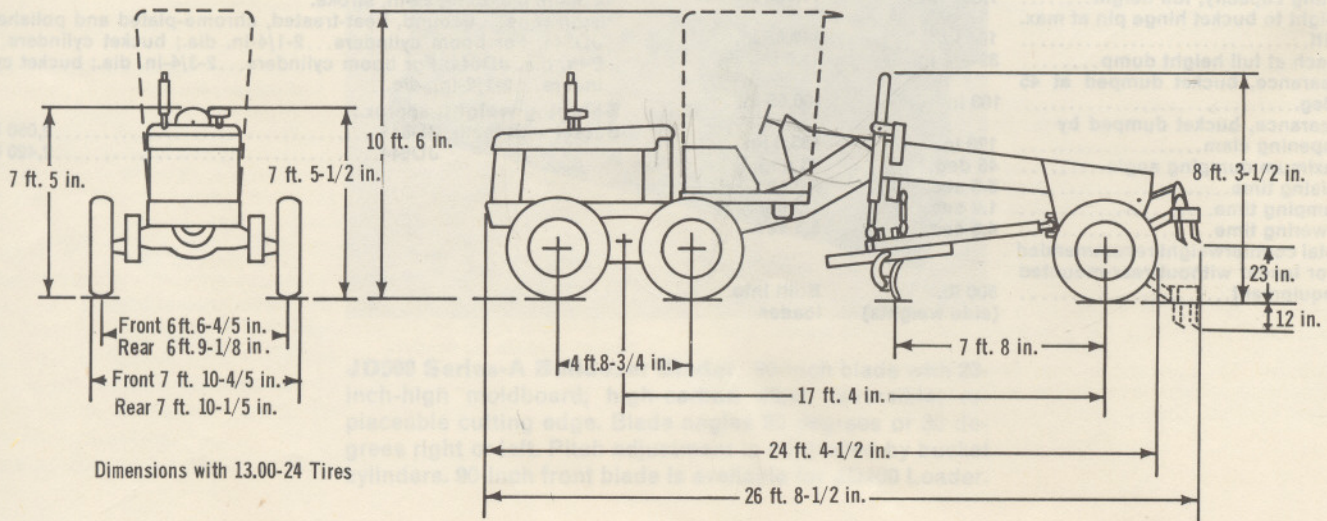
All-hydraulic control of blade and machine functions. Exclusive closed-center system with built-in, positive hydraulic locks gives instant response with no blade drift or creep.

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. Wherever 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 500 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.
manual (right and left).....30 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 8 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. 8-3/4 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: 7,000 lb. maximum hydraulic down pressure, hydraulic lift 20,000 lb. 11 teeth 1 in. x 3 in. shank, 8-3/4-in. penetration, 22-1/2-in. lift.

Bulldozer blade...93-in. width, 26.5-in. height, 3-in. depth of cut, 31-in. ground-clearance lift, 11 deg. left or right angle, using frame steering.

	With Std. Equip.	With Std. Equip. and Cab
Weight Distribution:		
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):

Bulldozer blade
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