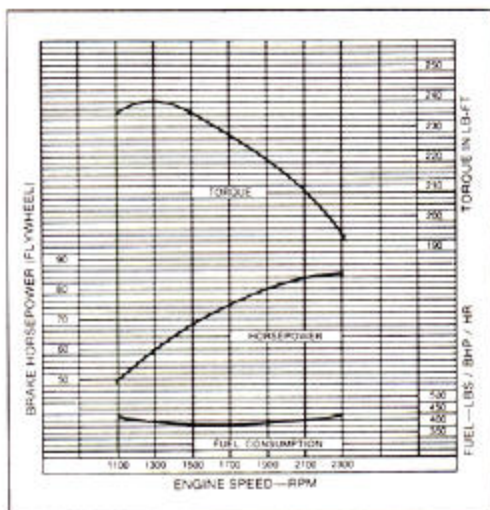




# JD570-A MOTOR GRADER



## ENGINE PERFORMANCE



## FEATURES

85 SAE net hp (63.4 kW)

12-ft. (3.66 m) blade; 2-ft. (610 mm) extensions available

Power Shift transmission;  
8 speeds forward, 4 reverse

Articulated frame steering

Differential lock-unlock

18-ft. (5.49 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, 5-position saddle lets you position blade for 90-degree bank cuts, left or right, in approximately one minute, without leaving your seat

Oscillating front axle and rear tandem

Hydraulic front-wheel lean

Roll-over protective structure (ROPS) w/cab

Weight distribution—30 percent front, 70 percent rear

## ADD VERSATILITY WITH:

Scarifier

Snow plow and wings

Bulldozer

Automatic blade control

TED B. MILLER CO., INC.  
GERING, NEB.

# JD570-A MOTOR GRADER SPECIFICATIONS

(Specifications are 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 and standard equipment.)

<b>Power (@ 2300 engine rpm):</b>	<b>SAE</b>	<b>DIN</b>
Gross .....	92 hp (68.6 kW)	
Net .....	85 hp (63.4 kW)	86.2 PS

Net engine flywheel power is for an engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, alternator and muffler. The gross engine power is without fan. Flywheel power ratings are under SAE standard conditions of 500-ft. altitude and 85° F. temperature, and DIN 70 020 conditions (non-corrected). No derating is required up to 10,000 feet (3000 m) altitude.

**Engine:** John Deere turbocharged diesel, vertical 6-cylinder, valve-in-head, 4-stroke cycle

Bore and stroke .....	4.02x4.33 in. (102x110 mm)
Piston displacement .....	329 cu. in. (5.392 L)
Compression ratio .....	16.2 to 1
Maximum torque @ 1300 rpm .....	238 lb-ft (323 Nm) (32.8 kg-m)
NACC or AMA (U.S. Tax) horsepower .....	38.6
Main bearings .....	7
Lubrication .....	Pressure system w/full-flow filter
Cooling .....	Pressurized w/thermostat and fixed bypass
Fan .....	Suction
Air cleaner w/restriction indicator .....	Dry
Electrical system .....	12-volt w/alternator
Batteries (2) .....	Reserve capacity: 360 minutes

**Transmission:** Power Shift, 8 forward and 4 reverse selections

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

**Travel Speeds (2300 engine rpm, no tire slip):**

Shift Lever Position	mph	km/h
Forward 1	2.0	3.3
2	2.9	4.6
3	4.5	7.2
4	5.8	9.4
5	7.6	12.2
6	9.8	15.8
7	12.8	20.6
8	21.6	34.8
Reverse 1	2.5	4.0
2	3.5	5.6
3	5.5	8.8
4	7.1	11.4

**Final Drives:** Inboard planetary

## Brakes:

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

## Steering:

Front ..... Full hydraulic power system  
 Rear ..... Hydraulically articulated frame steering (22 deg. left or right)  
 Turning radius ..... 18 ft. (5.49 m)  
 Range ..... 51 deg. left or right

## Hydraulic System: Closed-center

Pump ..... Pressure controlled variable displacement, 27 gpm (102 l/min) @ 2300 engine rpm

**Circle:** 5.50x1x4.62x1 in. (140x25x117x25 mm) welded angle, 4 ft. 6 in. (1.37 m) dia.

Rotation ..... 360 deg.  
 Drive ..... Hydraulic motor and worm gear

**Drawbar:** Tapered box, max. 3x7x0.375 in. (76x178x9.5 mm) wall, w/universal swivel

<b>Blade:</b>	<b>Standard</b>	<b>Optional</b>
Length .....	12 ft. (3.66 m)	12 ft. (3.66 m)
Height .....	22 in. (559 mm)	22 in. (559 mm)
Thickness .....	0.62 in. (15.8 mm)	0.75 in. (19.1 mm)

## Blade Lifting Mechanism:

Control ..... Dual-lever, hydraulic  
 Cylinders (2) ..... 3 in. (76 mm) dia. bore; 42 in. (1.07 m) stroke

## Blade Range:

Lift above ground ..... 1 ft. 1 in. (330 mm)

## Blade side-shift:

Right ..... 2 ft. 2.75 in. (679 mm)  
 Left ..... 2 ft. 7.25 in. (794 mm)

## Shoulder reach outside wheels:

Right .....	5 ft. 11.5 in. (1.82 m)
Left .....	6 ft. 5.25 in. (1.96 m)
Pitch .....	32 deg. total

## Saddle:

Rotation ..... 45 deg. right or left, 5 positions  
 Control ..... Single foot-operated release hydraulically controls tapered locking pins

## Frame: Tapered box

Section size, max. ....	16.5x8 in. (419x203 mm)
min. ....	12.5x8 in. (318x203 mm)
Weight per ft. max. ....	99 lb. (44.9 kg/m)
av. ....	91 lb. (41.3 kg/m)

**Tandems:** Welded steel box section 1 ft. 9.75 in. (552 mm)x6.5 in. (165 mm)

Drive .....	1.75 in. (44 mm) pitch roller chain
Axle dia. at bearings .....	3.25 in. (83 mm)
	2.62 in. (67 mm)

**Front Axle:** Fabricated steel A-frame with cast alloy-steel spindles, tapered roller bearings

Diameter at bearing seats .....	2.62 in. (67 mm)
	2.06 in. (52 mm)
Total oscillation .....	30 deg.
Wheel lean (either direction) .....	20 deg.

**Rear Drive Axle:** Full floating with tapered roller bearings

Diameter at bearings ..... 3.28 in. (83 mm)

**Tires:** 13.00-24, 8-ply-rating; 15.5-25, 8-ply-rating; 13.00-24, 10-ply-rating

## Dimensions:

Tire Size	Wheel Tread		Width		Ground Clearance
	Front	Rear	Front	Rear	(Front Axle)
13.00-24	78.75 in. (2.00 m)	61.125 in. (2.06 m)	7 ft. 10.75 in. (2.41 m)	7 ft. 10.25 in. (2.39 m)	1 ft. 11.5 in. (597 mm)
15.5-25	81.375 in. (2.07 m)	63.75 in. (2.13 m)	8 ft. 3.75 in. (2.53 m)	8 ft. 3.25 in. (2.52 m)	1 ft. 10.9 in. (562 mm)

Height to top of steering wheel ..... 7 ft. 5 in. (2.26 m)

## Capacities:

	U.S.	Imp.	Liters
Fuel tank .....	50 gal.	41.7 gal.	189.3
Cooling system .....	5.6 gal.	4.7 gal.	21.2
Engine lubrication, including filter ..	3 gal.	2.5 gal.	11.4
Transmission and hydraulic system ..	21 gal.	17.5 gal.	79.5
Tandem housings (each) .....	5 gal.	4.2 gal.	18.9
Worm gearbox .....	1.5 qt.	1.3 qt.	1.4

**Scarifier (Special Equipment):** V-type for 46 in. (1.17 m) cut with 3 manual pitch positions

Number of teeth .....	5 standard, 9 optional
Lift above ground .....	1 ft. 10.5 in. (572 mm)
Penetration .....	8.75 in. (222 mm)
Maximum pressure—down .....	7000 lb. (31.37 kN) (3175 kg)
up .....	20,000 lb. (89.64 kN) (9072 kg)
Shank size .....	1x3 in. (25x76 mm)

**Bulldozer (Special Equipment):** Mounts on scarifier linkage. Angles 22 deg. left or right by articulating machine.

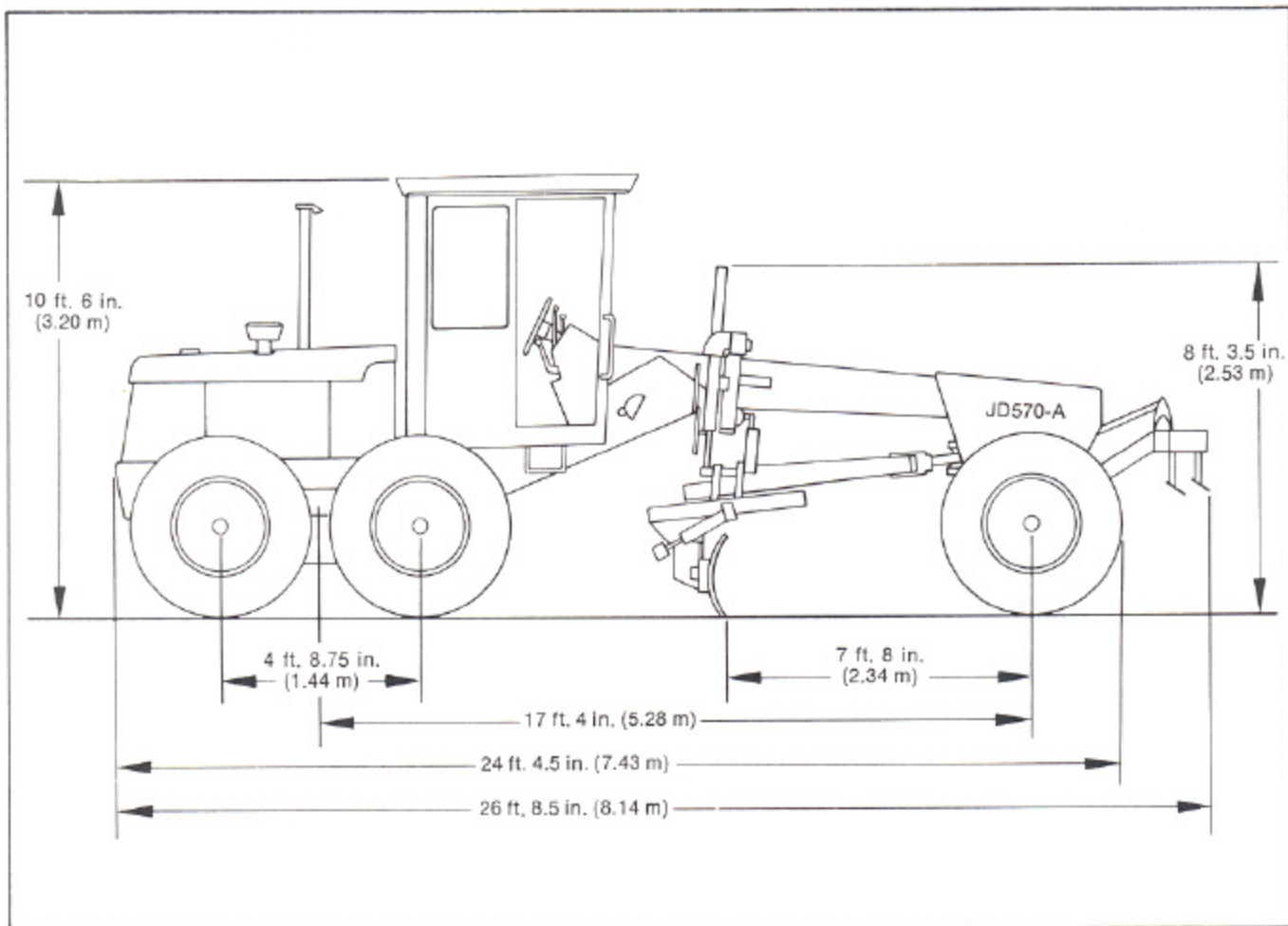
Length .....	93 in. (2.36 m)
Height .....	23.5 in. (597 mm)
Lift above ground .....	27 in. (686 mm)
Penetration .....	4 in. (102 mm)

## ▲ Additional Standard Equipment:

Transistorized voltage regulator	Gauges:
Lights	Water temperature
Turn signals	Transmission temperature
Electric hourmeter	Engine oil pressure
Horn	Fuel quantity
Deluxe seat	Ether starting aid
Transmission bottom guard	Precleaner
	ROPS cab and seat belt
	Work lights
	Cab heater
	Front windshield wiper
	Rear windshield wiper

▲ Indicates change from last printing.

## JD570-A MOTOR GRADER DIMENSIONS



### ▲ SAE Operating Weight

	On Front Wheels	On Rear Wheels	Total
Standard equipment .....	5725 lb. (2597 kg)	14,500 lb. (6577 kg)	20,225 lb. (9174 kg)
Standard equipment and scarifier .....	6775 lb. (3064 kg)	14,328 lb. (6499 kg)	21,103 lb. (9616 kg)
Standard equipment and wheel weights .....	5725 lb. (2597 kg)	15,100 lb. (6849 kg)	20,825 lb. (9446 kg)
Standard equipment, scarifier, and wheel weights .....	6775 lb. (3073 kg)	14,928 lb. (6771 kg)	21,703 lb. (9844 kg)

### ▲ Special Equipment:

Scarifier	12-ft. (3.66m) heavy-duty blade
Cab defroster fan	Engine side-shields
Floor mat	Overlay end bits
ROPS canopy and seat belt	Bulldozer
2-ft. (610 mm) moldboard extensions, right or left	Wheel weights for 24-in. (610 mm) tires
	Heavy-duty cutting edges
	Automatic blade control