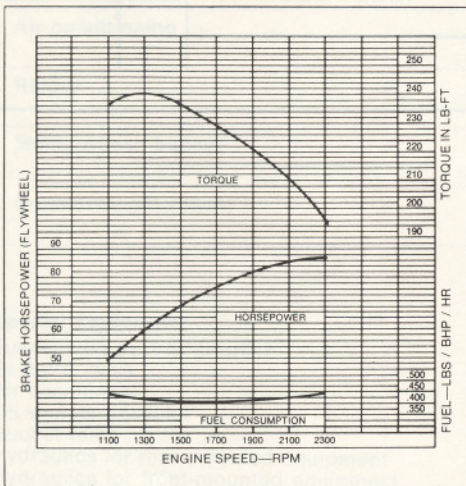




# JD570-A MOTOR GRADER



## ENGINE PERFORMANCE



## FEATURES

- 85 SAE net hp (86.2 PS)
- 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



## JD570-A 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 and standard equipment.)

<b>Power (@ 2300 engine rpm):</b>		<b>SAE</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.

\*In the international system of units (SI), power is expressed in kilowatts (kW).

**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. (5392 cm <sup>3</sup> )
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
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

Pressure .....

2000 psi (137.9 bar) (140.6 kg/cm<sup>2</sup>)

Pump .....

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

Blade:	Standard	Optional
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. (147.3 kg/m)

av. ....

.91 lb. (135.4 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)	81.125 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)	83.75 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. (582 mm)

Height to top of steering wheel .....

7 ft. 5 in. (2.26 m)

### Capacities:

	U.S.	Liters
Fuel tank .....	50 gal.	189.3
Cooling system .....	5.6 gal.	21.2
Engine lubrication, including filter .....	3 gal.	11.4
Transmission and hydraulic system .....	21 gal.	79.5
Tandem housings (each) .....	5 gal.	18.9
Worm gearbox .....	1.5 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 .....

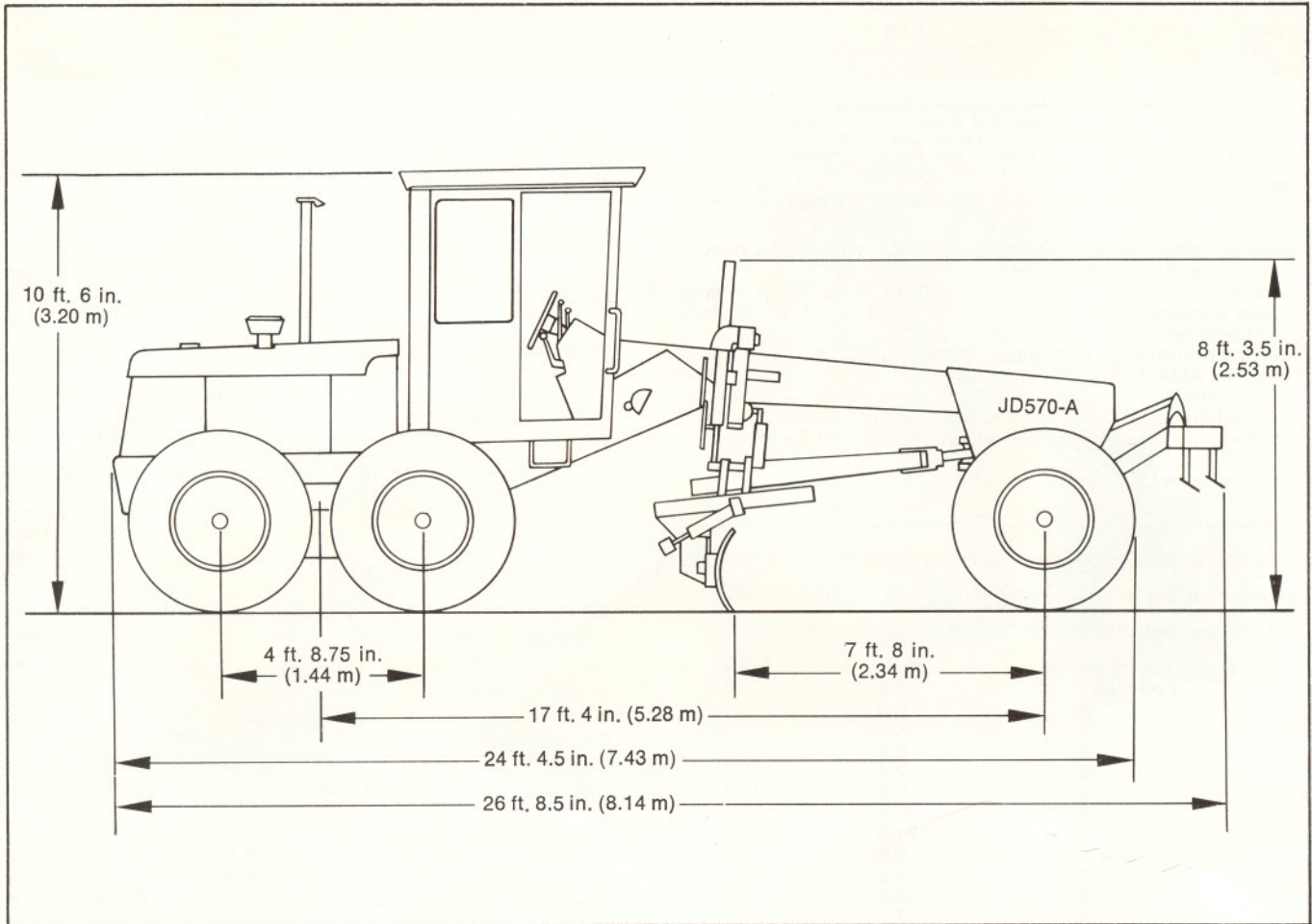
4 in. (102 mm)

### Additional Standard Equipment:

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



## JD570-A MOTOR GRADER DIMENSIONS



### SAE Operating Weight

	On Front Wheels	On Rear Wheels	Total
Standard equipment .....	5705 lb. (2608 kg)	14,320 lb. (6495 kg)	20,025 lb. (9083 kg)
Standard equipment and scarifier .....	6755 lb. (3063 kg)	14,148 lb. (6418 kg)	20,903 lb. (9481 kg)
Standard equipment and wheel weights .....	5705 lb. (2608 kg)	14,920 lb. (6768 kg)	20,625 lb. (9355 kg)
Standard equipment, scarifier, and wheel weights .....	6755 lb. (3063 kg)	14,748 lb. (6690 kg)	21,503 lb. (9753 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
Disconnect clutch	Heavy-duty cutting edges
	Automatic blade control