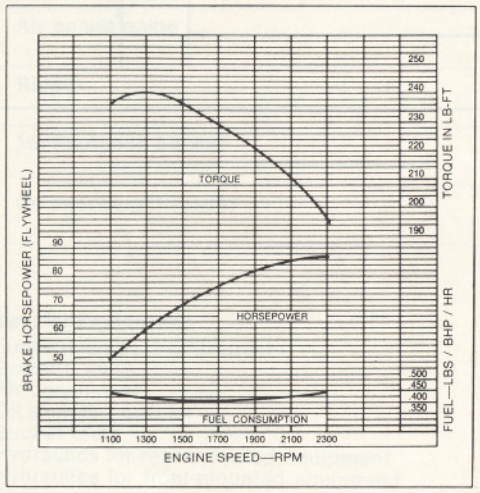
JD570-A MOTOR GRADER

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.)

Power (@ 2300 engine rpm): **SAE**
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^3)
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
Pressure ..... 2000 psi (137.9 bar) (140.6 kg/cm^2)
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)

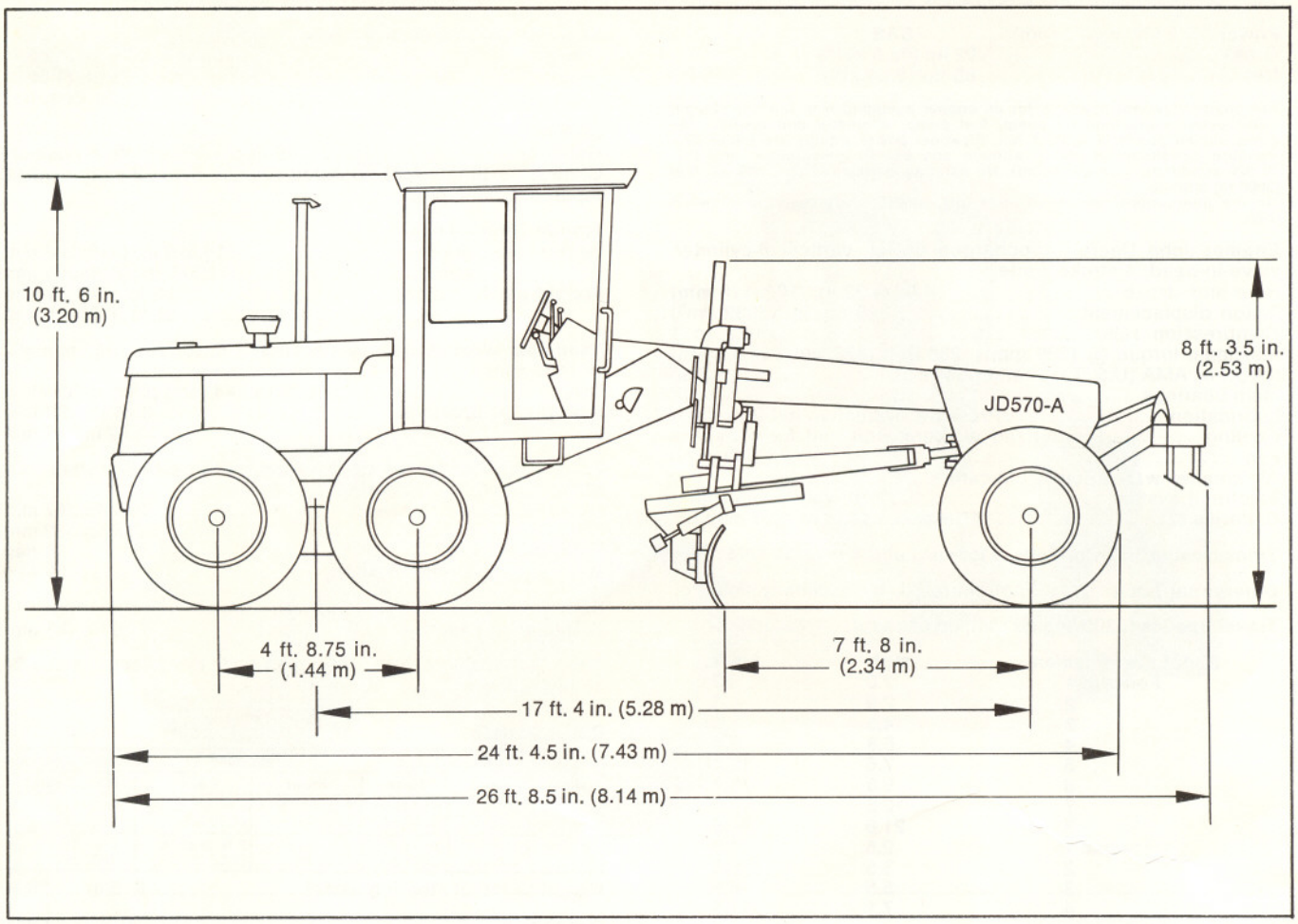
Capacities:	U.S.	Liters
Fuel tank	50 gal.	189.3
Cooling system	5.6 gal.	21.2
Engine lubrication, including filter	3 gal.	11.4
Transmission and hydraulic system	21 gal.	79.5
Tandem housings (each)	5 gal.	18.9
Worm gearbox	1.5 qt.	1.4

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
Lights
Turn signals
Electric hourmeter
Cigaret lighter
Horn
Deluxe seat
Transmission bottom guard
Gauges:
Water temperature
Transmission temperature
Engine oil pressure
Fuel quantity
Ether starting aid
Precleaner
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.	14,320 lb.	20,025 lb.
	(2608 kg)	(6495 kg)	(9083 kg)
Standard equipment and scarifier	6755 lb.	14,148 lb.	20,903 lb.
	(3063 kg)	(6418 kg)	(9481 kg)
Standard equipment and wheel weights	5705 lb.	14,920 lb.	20,625 lb.
	(2608 kg)	(6768 kg)	(9355 kg)
Standard equipment, scarifier, and wheel weights	6755 lb.	14,748 lb.	21,503 lb.
	(3063 kg)	(6690 kg)	(9753 kg)

Special Equipment:

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