

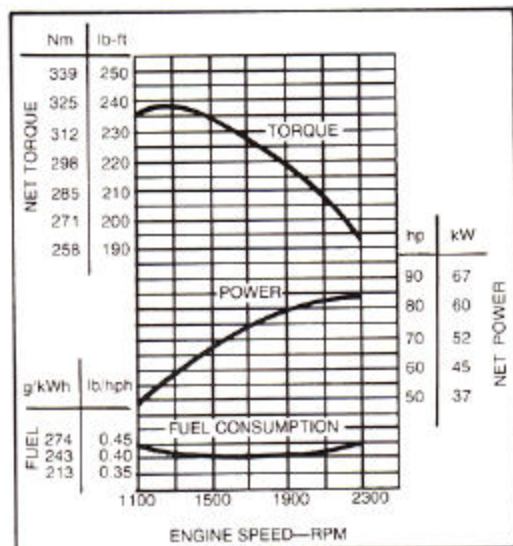


570A MOTOR GRADER



Model shown may include options.

ENGINE PERFORMANCE



FEATURES

85 SAE net hp (63.4 kW)

12-ft. (3.66 m) moldboard; 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

ADD VERSATILITY WITH:

Scarifier

Snow plow and wings

Bulldozer

Automatic blade control

570A MOTOR GRADER SPECIFICATIONS

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE Standards. Except where otherwise noted, these specifications are based on a unit with 12 ft. (3.66 m) moldboard with 6 in. (152 mm) cutting edge, 13.00-24, 8-PR, tubeless tires and standard equipment. Weights include lubricants, coolants, full fuel tank and 175 lb. (79 kg) operator.)

▲ Rated Power @ 2300 rpm:	SAE	DIN 70 020
Net	85 hp (63.4 kW)	63.4 kW
Gross	92 hp (68.6 kW)	

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 70 020, using No. 2-D fuel @ 35 API gravity. No derating is required up to 10,000 ft. (3050 m) altitude. Gross power is without cooling fan.

▲ Engine: John Deere 6-329T

Type	4-stroke cycle, turbocharged diesel
Bore and stroke	4.02 x 4.33 in. (102 x 110 mm)
No. of cylinders	6
Displacement	329 cu. in. (5.392 L)
Compression ratio	16.2 to 1
Maximum net torque @ 1300 rpm	238 lb-ft (323 Nm) (32.8 kg-m)
Lubrication	Pressure system w/full-flow filter
Cooling fan	Suction type
Air cleaner w/restriction indicator	Dry
Electrical system	12 volt w/55 amp alternator
Batteries (two 6-volt)	Reserve capacity: 360 minutes

Transmission Power Shift, 8 forward and 4 reverse selections

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

Shift Lever Position	mph	km/h
Forward 1	2.0	3.2
2	2.9	4.7
3	4.5	7.2
4	5.8	9.3
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	8.9
4	7.1	11.4

Differential Lock Foot-operated, hydraulically actuated

Final Drives Inboard planetary

Steering:

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

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

▲ Hydraulic System:

Closed-center with pressure-controlled 3.0 cu. in. (50 cm³) variable-displacement pump 27 gpm (1.70 L/s) @ 2300 engine rpm

▲ Circle: Fabricated steel angle construction

Circle diameter	54 in. (1.37 m)
Rotation	360 deg.
Drive	Hydraulic motor and worm gear

Drawbar Tapered box, max. 3 x 7 x 0.375 in. (76 x 178 x 9.5 mm) wall, w/universal swivel

	Standard	Optional
Moldboard	Wear-resistant high-carbon steel	
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)

Cutting Edge: Dura-Max[®] through-hardened curved steel
Thickness and width 0.62 x 6 in. (16 x 152 mm)

Blade Lifting Mechanism:

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

▲ Indicates change since last printing.

Blade Range:

Lift above ground	13 in. (330 mm)
Blade side-shift:	
Right	26.75 in. (679 mm)
Left	31.25 in. (794 mm)
Shoulder reach outside wheels:	
Right	71.5 in. (1.82 m)
Left	77.25 in. (1.96 m)
Pitch	32 deg. total

Saddle:

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

Frame: Tapered box section

Section size, max.	16.5 x 8 in. (419 x 203 mm)
min.	12.5 x 8 in. (318 x 203 mm)
Weight per ft. max.	99 lb. (147.3 kg/m)
av.	91 lb. (135.4 kg/m)

Tandems: Welded steel box section 21.75 x 6.5 in. (552 x 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
Total oscillation 30 deg.
Wheel lean (either direction) 20 deg.

Rear Drive Axle: Full floating with tapered roller bearings

Tires:

13.00-24, 8-PR, G2, standard
13.00-24, 10-PR, G2
15.5-25, 8-PR, L2

Dimensions:

Tire Size	Wheel Tread		Width		Ground Clearance (Front Axle)
	Front	Rear	Front	Rear	
13.00-24	76.75 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)	23.5 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)	22.9 in. (582 mm)

Height to top of steering wheel 89 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	22.5 in. (572 mm)
Penetration	8.75 in. (222 mm)
Maximum pressure—down	7000 lb. (31 kN) (3175 kg)
up	20,000 lb. (89 kN) (9072 kg)
Shank size	1 x 3 in. (25 x 76 mm)

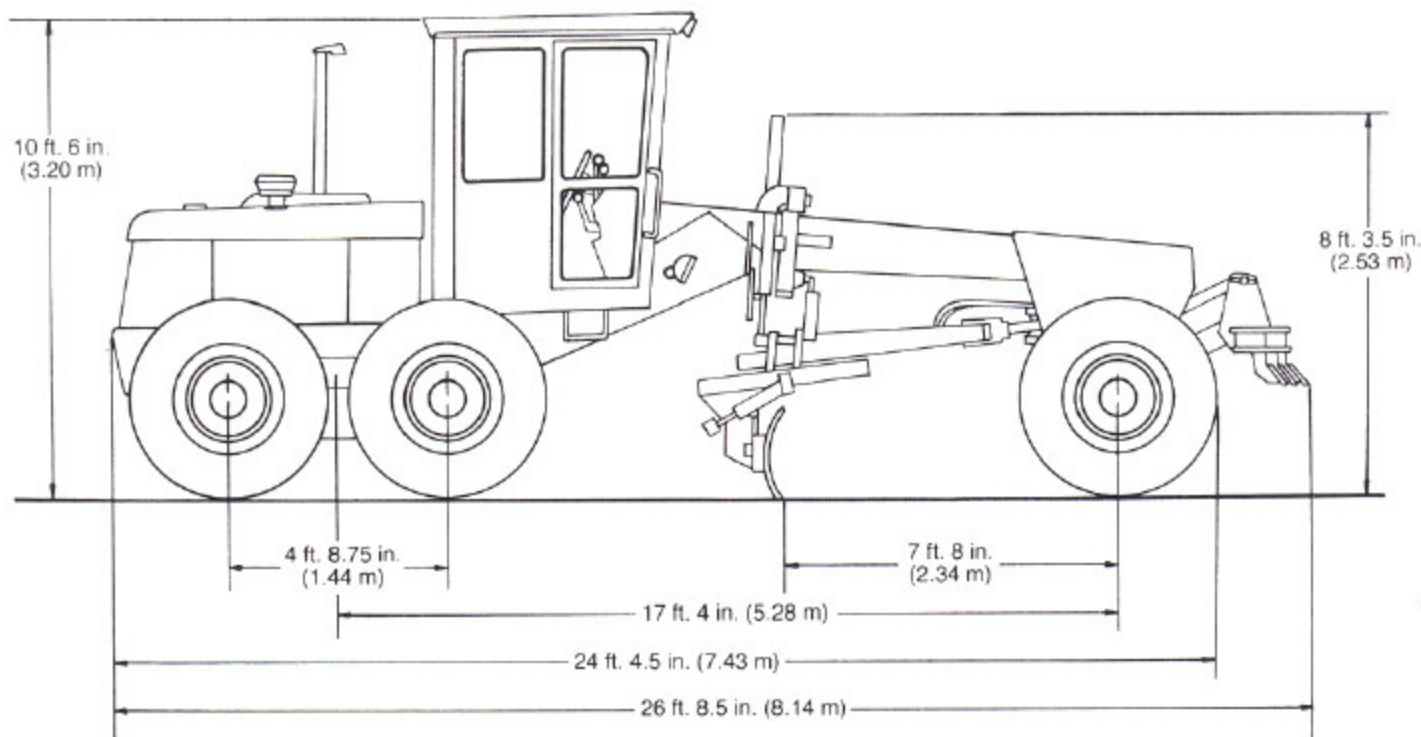
Bulldozer (Special Equipment): Mounts on scarifier linkage. Angles 22 deg. left or right by articulating machine.

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:

Lights, driving and work	Gauges:
Turn signals	Water temperature
Hourmeter	Transmission temperature
Horn	Engine oil pressure
Deluxe seat	Fuel level
Transmission bottom guard	Ether starting aid
Cab heater	Precleaner
Front windshield wiper	ROPS cab and seat belt
Rear windshield wiper	

570A 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. (3073 kg)	14,328 lb. (6499 kg)	21,103 lb. (9572 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)

Optional or Special Equipment with Weights:

(Add these weights to SAE Standard Equipment operating weights to obtain total operating weights.)

	lb.	kg
Basic scarifier w/five teeth	878	398
Defroster fan	5	2
Floor mat	5	2
ROPS canopy w/seat belt	-320	-145
Moldboard extension, 2-ft. (610 mm), right or left	154	70
Engine side shields	92	42
Overlay end bits (1 pair)	66	30
Bulldozer	606	275
Wheel weights for 24-in. (610 mm) tires (4)	600	272
Automatic blade control	350	159
12-ft. (3.66 m) heavy-duty moldboard	100	45
13.00-24, 10-PR, G2 tires (6)	42	19
15.5-25, 8-PR, L2 loader tires w/12-in. (305 mm) rims (6)	294	133