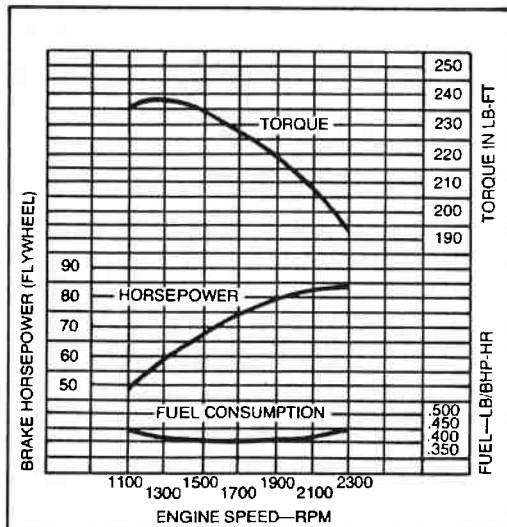




570A MOTOR GRADER



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

570A 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 12 ft. (3.66 m) moldboard with 6 in. (152 mm) cutting edge, 13.00-24, 8-ply-rating, lubeless tires and standard equipment.)

Power (@ 2300 engine rpm):	SAE	DIN
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 (1.70 L/s) @ 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

	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
 Width and thickness 6x.62 in. (152x16 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.	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)

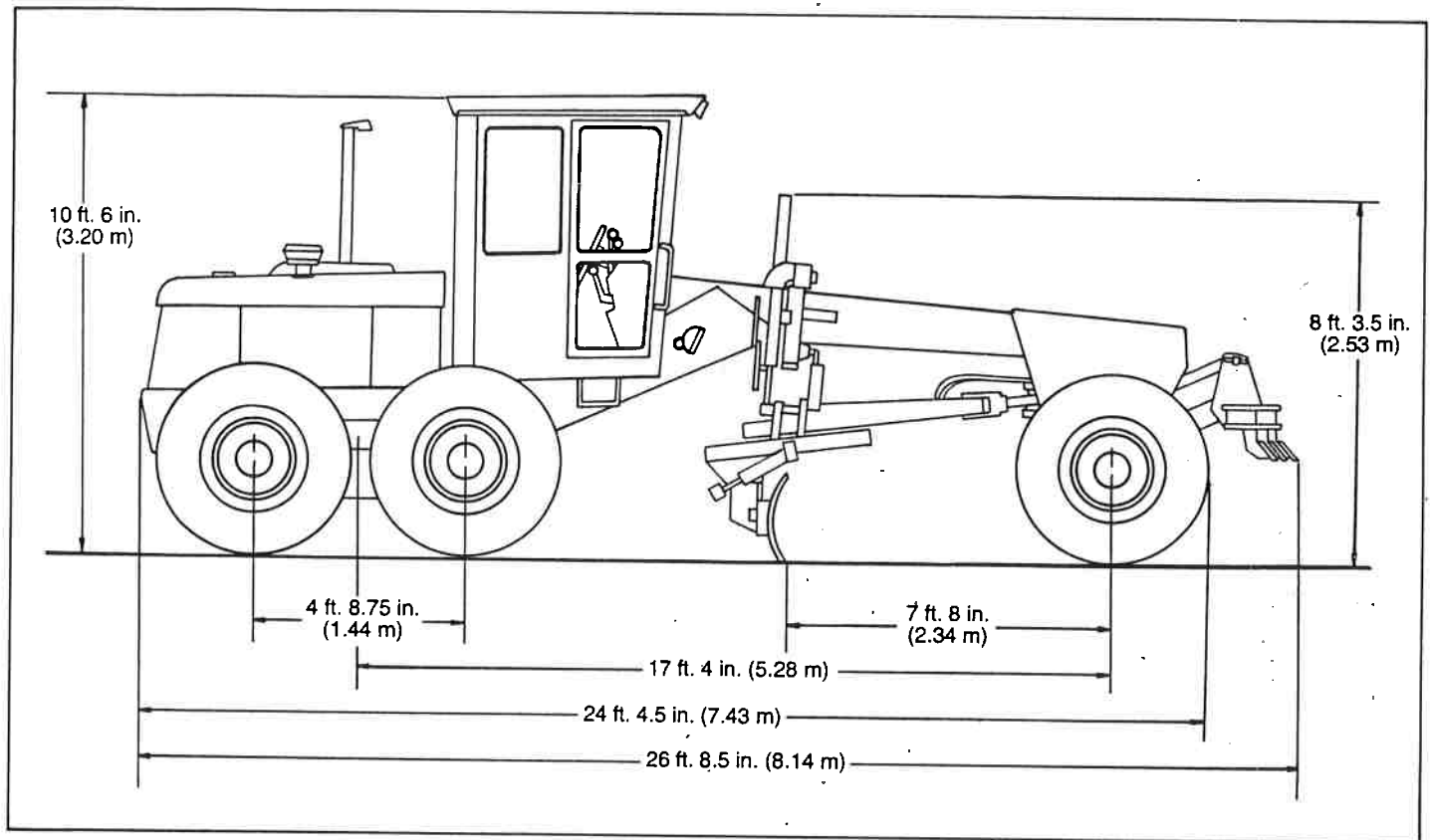
Penetration 4 in. (102 mm)

Additional Standard Equipment:

Transistorized voltage regulator
 Lights
 Turn signals
 Hourmeter
 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

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)

Special Equipment:

Scarifier	12-ft. (3.66 m) 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
	Automatic blade control
	Heavy-duty moldboard with Dura-Max™ cutting edge