



# JD570-A MOTOR GRADER



## FEATURES

12-ft. (3,66 m) blade; 2-ft. (610 mm) extensions available

85 net engine flywheel horsepower (90,4 PS)

Power-Shift transmission;  
8 speeds forward, 4 reverse

Frame steering

Differential lock

18-ft. (5,49 m) turning radius

All-hydraulic control of blade and machine functions

Exclusive closed-center hydraulic system w/built-in, positive hydraulic locks provides instant response w/o 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, from your seat

Oscillating front axle and rear tandem

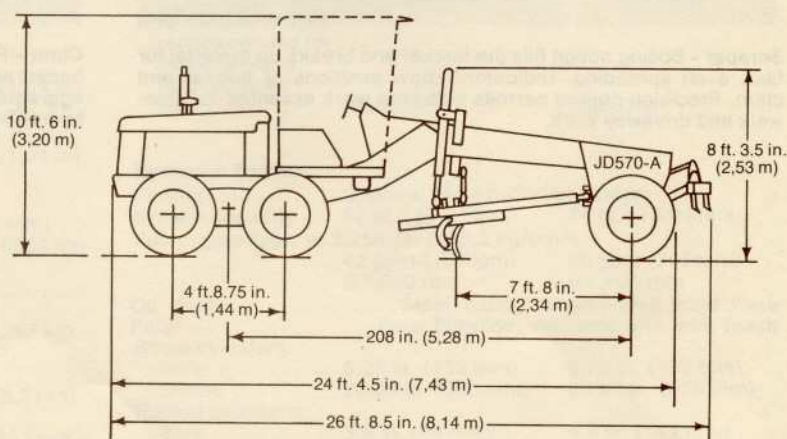
Hydraulic front-wheel lean

Weight distribution—30 percent front, 70 percent rear

May be equipped with:

Cab (includes roll-over protective structure)  
Scarifier

Dimensions: (approx.)



## SPECIFICATIONS—JD570-A MOTOR GRADER

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with IEMC 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.)



| Horsepower (@ 2,300 engine rpm): | SAE | DIN     |
|----------------------------------|-----|---------|
| Gross                            | 92  |         |
| Net                              | 85  | 90,4 PS |

Net engine flywheel horsepower is for an engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, alternator, and muffler. Gross engine horsepower is without fan. Gross and net flywheel horsepower ratings are under SAE standard conditions of 500 ft. altitude and 85°F. temperature and DIN 70 020 standard conditions of 760 mm Hg barometer (sea level) and 20°C. temperature.

**Engine:** John Deere Diesel, vertical, 6-cylinder, 4-stroke cycle  
 Bore and stroke 4.02 x 4.33 in. (102 x 110 mm)  
 Piston displacement 329 cu. in. (5392 cm<sup>3</sup>)  
 Compression ratio 16.7 to 1  
 Governed speed range 800-2,470 rpm  
 Maximum torque @ 1,300 rpm 238 lb-ft (32.8 kg-m)  
 NACC or AMA (U.S. Tax) horsepower 38.6  
 Main bearings 7  
 Lubrication Pressure with full-flow filter  
 Cooling Pressurized with thermostat and fixed bypass  
 Fan Suction-type  
 Air cleaner Dry-type, dual element  
 Electrical and starting system 12-volt with alternator  
**Transmission** Power-Shift, 8 forward and 4 reverse selections  
**Differential Lock** Foot-operated, hydraulically-actuated  
**Travel Speeds** (2,300 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-type

### Brakes:

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

### Steering:

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

### Hydraulic System:

Closed-center  
 System pressure 2,000 psi (140.6 kg/cm<sup>2</sup>)  
 Pump... Variable-displacement, 27 gpm (102 lpm) @ 2,300 engine rpm

**Circle** 5.25 x 1 x 4.62 x 1 in. (133 x 25 x 117 x 25 mm) welded angle, 4 ft. 6 in. (1.37 m) dia.

Rotation 360 deg.  
 Drive Hydraulic motor and worm gear

**Drawbar** Tapered box, max. 3 x 7 x .375 in. (76 x 178 x 9.5 mm) wall, w/ universal-type swivel

### Blade:

Length 12 ft. (3.66 m)  
 Height 2 ft. (610 mm)  
 Thickness 0.62 in. (15.8 mm)

### Blade Range:

Lift above ground 1 ft. 0.25 in. (311 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

### Blade Lifting Mechanism:

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

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

**Tandems** Welded steel box-section 1 ft. 9.75 in. (552 mm) x 6.5 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 w/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 w/tapered roller bearings

Diameter at bearings 3.28 in. (83 mm)

**Tires** (front and rear) 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 Axle) |
|-----------|---------------------|---------------------|--------------------------|--------------------------|-------------------------------|
|           | Front               | Rear                | Front                    | Rear                     |                               |
| 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-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 4-ft. 2-in. (1.27 m) cut w/3 manual pitch positions

Number of teeth 11  
 Lift above ground 1 ft. 10.5 in. (572 mm)  
 Penetration 8.75 in. (222 mm)  
 Maximum pressure—down 7,000 lb. (3175 kg)  
 up 20,000 lb. (9072 kg)  
 Shank size 1 x 3 in. (25 x 76 mm)

| Operating Weight (approx.):        | On Front Wheels     | On Rear Wheels       | Total                |
|------------------------------------|---------------------|----------------------|----------------------|
| W/standard equipment               | 5,585 lb. (2533 kg) | 13,140 lb. (5960 kg) | 18,725 lb. (8493 kg) |
| W/cab                              | 5,785 lb. (2624 kg) | 14,240 lb. (6459 kg) | 20,025 lb. (9083 kg) |
| W/cab and scarifier                | 6,835 lb. (3100 kg) | 14,068 lb. (6381 kg) | 20,903 lb. (9481 kg) |
| W/cab and wheel weights            | 5,785 lb. (2624 kg) | 14,840 lb. (6731 kg) | 20,625 lb. (9355 kg) |
| W/cab, scarifier and wheel weights | 6,835 lb. (3100 kg) | 14,668 lb. (6653 kg) | 21,503 lb. (9753 kg) |

### Standard Equipment:

55-amp. alternator  
 Transistorized voltage regulator  
 Two 172-amp. batteries  
 Lights (front and rear)  
 Electric hour meter  
 Cigar lighter  
 Horn  
 Air-cleaner-restriction indicator  
 Deluxe seat  
 Gauges:  
 Water temperature  
 Transmission temperature  
 Engine-oil pressure  
 Air-inlet cap

### Special Equipment:

Scarifier  
 Turn signals  
 SMV emblem and bracket  
 Warning light

Altitude compensator  
 Tool box  
 Work lights  
 Fuel gauge  
 Cab (includes roll-over protective structure and seat belt)  
 Cab heater  
 Front windshield wiper  
 Rear windshield wiper  
 Cab-defroster fan  
 Floor mat  
 Engine-coolant heater  
 Ether starting aid  
 2-ft. (610 mm) moldboard extensions, right or left  
 10-ft. (3.05 m) moldboard  
 Pre-cleaner  
 Engine side-shields  
 Overlay end bits  
 Bulldozer  
 Wheel weights for 24-in. tires  
 Transmission bottom guard