**JD570-A MOTOR GRADER**

**ENGINE PERFORMANCE**

<table>
<thead>
<tr>
<th>Horsepower</th>
<th>Torque</th>
<th>Fuel Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>85 SAE net hp (86.2 PS)</td>
<td>230 ft-lb (313 Nm)</td>
<td>1.0 gpm (3.8 l/min)</td>
</tr>
<tr>
<td>12-ft. (3.66 m) blade</td>
<td>140 ft-lb (189 Nm)</td>
<td>0.9 gpm (3.5 l/min)</td>
</tr>
<tr>
<td>6-ft. (1.83 m) blade</td>
<td>120 ft-lb (163 Nm)</td>
<td>0.8 gpm (3.0 l/min)</td>
</tr>
<tr>
<td>2-ft. (610 mm) extensions available</td>
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</tbody>
</table>

**FEATURES**

- 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: 329 cu. in. (5392 cm³)
  - Net: 329 cu. in. (5392 cm³)

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 600 ft. altitude and 85° F. temperature, and DIN 76 520 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: 4.02 x 4.33 in. (102 x 110 mm)
- Piston displacement: 329 cu. in. (5392 cm³)
- Compression ratio: 16.2 to 1
- Maximum torque: 238 lb-ft (323 Nm) @ 1300 rpm
- Net horsepower (SAE): 38.6 hp (28.8 kW)
- Maximum power (SAE): 50.5 hp (37.5 kW)
- Gross engine power: 51.0 hp (37.8 kW)
- Gross power (SAE): 51.0 hp (37.8 kW)
- Water pump, lubricating oil pump, fuel pump, alternator and muffler.
- Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with ICED and SAE Standards.
- Net, 85hp(63.4kW) 86.2 PS
- Power Shift, 8 forward and 4 reverse selections

**Air Cleaner:**
- With restriction indicator
- Dry

**Cooling:**
- Pressurized with thermostat and fixed bypass

**Lubrication:**
- Pressure system with full-flow filter

**Transmission:**
- Power Shift, 8 forward and 4 reverse selections
- Differential Lock
- Foot-operated, hydraulically actuated

**Electrical System:**
- 12-volt with alternator

**Dimensions:**
- **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: 61 deg. left or right
- **Hydraulic System:**
  - Closed-center
  - Pressure: 2000 psi (137.9 bar) (140.6 kg/cm²)
  - Number of teeth: 5 standard, 9 optional
  - Pump: Variable displacement, 27 gpm (102 l/min) @ 2300 engine rpm
  - Circle: 5.50 x 14.62 x 1 in. (140 x 25 x 117 x 25 mm) welded angle, 22 deg. left or right by articulating machine.
  - Drawbar: Tapered box, max. 3 x 7 x 0.375 in. (76 x 178 x 9.5 mm) wall, w/universal swivel
  - Blade: Standard
    - Length: 12 ft. (3.66 m)
    - Height: 22 in. (559 mm)
    - Thickness: 0.62 in. (15.8 mm)
- **Blade Lifting Mechanism:**
  - Control: Dual-lever, hydraulic cylinders (2)
  - Blade Range: 1 ft. 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 pin

**Frame:**
- Tapered box
  - Section size, max.: 16.5x8 in. (419 x 203 mm)
  - Weight per ft. max.: 99 lb. (147.3 kg/m)
  - Total oscillation: 30 deg.
  - Wheel lean (either direction): 20 deg.

**Front Axle:**
- Fabricated steel A-frame with cast alloy-steel spindles, tapered roller bearings
  - Diameter at bearing seats: 1.75 in. (44 mm) pitch roller chain
  - Axle dia. at bearings: 3.25 in. (83 mm)

**Rear Drive Axle:** Full floating with tapered roller bearings
- Diameter at bearings: 5.25 in. (135 mm)
- Total oscillation: 30 deg.

**Tires:**
- 13.00-24, 8-ply-rating; 15.5-25, 8-ply-rating; 13.00-24, 10-ply-rating

**Scarfier (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)
- Tandem housings (each): 5 gal.
- Maximum pressure-down: 7000 lb. (31.37 kN) (3175 kg)

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

10 ft. 6 in. (3.20 m)

4 ft. 8.75 in. (1.44 m)

7 ft. 8 in. (2.34 m)

8 ft. 3.5 in. (2.53 m)

17 ft. 4 in. (5.28 m)

24 ft. 4.5 in. (7.43 m)

26 ft. 8.5 in. (8.14 m)

SAE Operating Weight

<table>
<thead>
<tr>
<th>Equipment Configuration</th>
<th>On Front Wheels</th>
<th>On Rear Wheels</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard equipment</td>
<td>5705 lb.</td>
<td>14,320 lb.</td>
<td>20,025 lb.</td>
</tr>
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<td>Standard equipment and scarifier</td>
<td>6755 lb.</td>
<td>14,148 lb.</td>
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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. (3.66 m) 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