FEATURES
70 SAE net hp (74.4 PS)
Articulated frame power steering
Oscillating front axle
8-speed transmission, Power Shift or Syncro-Range
Front-axle differential lock
Wet-disk power brakes
Hydraulically actuated winch
Spark-arresting muffler
Adjustable arch

ADD VERSATILITY WITH:
Skidding grapple shear
(Allied equipment)

*SAE Standard
**JD440-B SKIDDER SPECIFICATIONS**

(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 Syncro-Range transmission, 16.4-26, 10-ply logging tires and standard equipment.)

<table>
<thead>
<tr>
<th><strong>Horsepower (at 2,500 engine rpm):</strong></th>
<th>SAE</th>
<th>DIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross</td>
<td>75.5</td>
<td>74,4 PS</td>
</tr>
<tr>
<td>Net</td>
<td>70</td>
<td>74,4 PS</td>
</tr>
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</table>

*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 900 ft. altitude and 85° F. temperature and DIN 70 020 standard conditions 01 760 mm Hg barometer (sea level) and 20° C. temperature.*

**Engine:** John Deere, 4-cylinder, diesel, 4-stroke cycle

- **Bore and stroke:** 4.02x4.33 in. (102x110 mm)
- **Piston displacement:** 219 cu. in. (3588 cm³)
- **Compression ratio:** 16.7 to 1
- **Maximum torque @ 1,500 rpm:** 173 lb-ft (23.8 kg-m)
- **NACC or AMA (U.S. Tax) horsepower:** 23.64
- **Lubrication:** Pressure system w/full-flow filter
- **Cooling:** Pressurized w/thermostat and fixed bypass
- **Fan:** Blower
- **Air cleaner w/restriction indicator:** Dry
- **Electrical system:** 12-volt w/alternator
- **Batteries (2):** Reserve capacity: 220 minutes

**Differentials:**
- **Front:** Full differential w/hiydraulic lock
- **Rear:** Solid axle w/no differential action

**Drive Axes:**
- Four-wheel drive with inboard planetary gears on all axes.
- Front axle oscillates 15 degrees above and below horizontal.
- 18 in. (457 mm) travel at tire center line.

**Power Steering:**
- Articulated frame hydraulically actuated by dual cylinders.
- **Turning radius:** 16 ft. 8 in. (5.06 m)
- **Turning clearance:** 35 ft. 6 in. (10.82 m)

**Hydraulic System:**
- Closed-center, constant-pressure. Variable-displacement pump driven from crankshaft. 28 gpm (106 lpm), 2,000 psi (140,5 kg/cm²) @ 2,500 engine rpm.

**Tires:**
- 18.4-26, 10-ply, rating, logging
- 18.9-30, 8-ply, rating, logging

**Capacities:**
- **U.S.** | **Liters**
- Fuel tank | 24 gal. | 90.8
- Cooling system | 4 gal. | 15.1
- Engine lubrication, including filter | 9 qt. | 8.5
- Transmission case (includes hydraulic system): Syncro-Range | 8 gal. | 30.3
- Power Shift | 9 gal. | 34.1
- Front differential | 9 gal. | 34.1
- Rear axle case | 18 qt. | 17.0

**Additional Standard Equipment:**
- Flanged axles
- Muffler
- Adjustable log arch
- Foot throttle
- Fuel gauge
- Oil pressure warning light
- Alternator charge warning light
- Water temperature gauge
- Engine starting aid
- Engine side shields
- Deluxe seat w/suspension
- Roll-over protective structure (ROPS) w/canopy, seat belt, and brush screens
- Transistorized voltage regulator
- Fire extinguisher
- Adjustable log arch
- Hand throttle
- Foot throttle
- Engine starting aid
- Deluxe seat w/suspension
- Roll-over protective structure (ROPS) w/canopy, seat belt, and brush screens
- Transistorized voltage regulator

**Witch:**
- Live mechanical drive; hydraulically-actuated clutch and brake.
- Single-lever control.

**Cable capacities:**
- ½-in. (12.7 mm) cable 195 ft. (59,44 m)
- ⅜-in. (15.8 mm) cable 125 ft. (38,10 m)
- ⅝-in. (19.1 mm) cable 100 ft. (30,48 m)

*Calculated: No allowance made for loose or uneven spooling.*

**Winch:**
- Line pull (2,200 rpm):
  - Bare drum | 17,300 lb. (7847 kg)
  - Full drum | 10,800 lb. (4899 kg)
- Line speed (2,200 rpm):
  - Bare drum | 100 fpm (30,5 m/min.)
  - Full drum | 159 fpm (48,5 m/min.)

**Blade:** Hydraulic control
- **Width:** 6 ft. (1,83 m)
- **Height:** .7 ft. 8 in. (2,38 m)
- **Max. lift above ground level:** 4 ft. 4 in. (1,32 m)
- **Max. drop below ground level:** 12 in. (305 mm)
- **Horizontal roller:** 6 in. dia. (152 mm)
- **Vertical rollers (through-hardened steel):** .45 in. dia. (114 mm)
- **Working height (top of horizontal roller to ground):** Adjustable arch
- **Settings:** Bottom—6 ft. 7 in. (1,70 m); center—6 ft. 1 in. (1,85 m); top—6 ft. 7 in. (2,01 m)

**SYNCRO-RANGE**

Constant mesh with 8 speeds forward, 4 reverse. Four forward speed ranges with synchronized shifting between low and high within each range. Incorporates transmission lock for parking.

- **Clutch:** 12 in. (305 mm), dry, ceramic-faced, foot-pedal-operated.

**Transmission**

- **Constant mesh**
- **Planetary gears.** Hydraulically actuated wet-disk clutches and brakes. 8 forward, 4 reverse speeds selected by a single lever.
- **Cold weather disconnect clutch is 12 in. (305 mm), dry, hand-operated.**

**POWER SHIFT**

- **Planetary gears.** Hydraulically actuated wet-disk clutches and brakes.
- **Cold weather disconnect clutch is 12 in. (305 mm), dry, hand-operated.**
- **Hydraulic power actuated, dual-controlled disks on 4 wheels.**
- **Hand-operated mechanical brake for parking and winching.**

**Brakes**

- **Hydraulic power actuated, dual-controlled disks on 4 wheels.**
- **Hand-operated mechanical brake for parking and winching.**

**Special Equipment:**
- **Wheel weights:** Fixed log arch
- **Spark-arresting muffler:** Wide log bumper
- **Suction fan:** Altitude compensator

- **SAE Operating Weight:** 14,200 lb. (6441 kg)

**12,250 lb. (5784 kg)**
JD440-B SKIDDER DIMENSIONS:

Sideview dimensions are for Skidder equipped with 18.4-26 tires, adjustable arch, and regular bumper in upper position.

<table>
<thead>
<tr>
<th>TIRE SIZE</th>
<th>A WHEEL TREAD</th>
<th>B GROUND CLEARANCE</th>
<th>C OVERALL WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.9-30</td>
<td>74 in. (1,88 m)</td>
<td>75 in. (1,90 m)</td>
<td>7 ft. 7 in. (2,31 m)</td>
</tr>
<tr>
<td></td>
<td>1 ft. 6.6 in. (472 mm)</td>
<td>1 ft. 6.6 in. (472 mm)</td>
<td>7 ft. 9 in. (2,36 m)</td>
</tr>
<tr>
<td>18.4-26</td>
<td>75.5 in. (1,92 m)</td>
<td>75.5 in. (1,92 m)</td>
<td>7 ft. 8.4 in. (2,35 m)</td>
</tr>
<tr>
<td></td>
<td>1 ft. 6 in. (457 mm)</td>
<td>1 ft. 6 in. (457 mm)</td>
<td>7 ft. 10.4 in. (2,40 m)</td>
</tr>
</tbody>
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