



# 6300 BULLDOZER

## FEATURES

- Inside-mounted with one-lever hydraulic control.
- Walk-through compartment.
- Excellent visibility.
- Choice of 90-inch or 72-inch blade.
- 3-piece, reversible, replaceable cutting edge.
- High, fast-acting lift.
- Positive down pressure.
- Float position.
- Right and left manual angling.
- Right and left manual tilt.
- Load-shaped blade provides maximum rolling action.
- Available in combination with Rotoboom, winch, log arch.

## SPECIFICATIONS

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



**Crawler**... JD350 (gasoline or Diesel) with 46 gross flywheel and 42 net flywheel h.p. (at 500 ft. altitude and 85° F. temp.). Engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, and alternator.

**Lift height above ground level**..... 37-1/4 in.

**Cutting depth below ground level**.... 11-1/2 in.

**Angle positions**... Straight or 25 degrees left or right (set manually).

**Tilt positions**..... 72-in. blade 90-in. blade

Right end down (set manually)..... 12-1/2 in. 16-1/2 in.

Left end down (set manually)..... 8-1/8 in. 10-3/16 in.

**Blade**... Reinforced, box-welded, 72 or 90 in. long. Cutting edge... 3-piece, reversible replaceable, heat-treated, high-carbon steel; center section 1/2 in.; end bits 5/8 in.

**Blade height**..... 23 in.

**Boom**..... Reinforced box-welded.

### Hydraulic system:

**Control**... Single-lever, 2-spool valve (1 for bulldozer, 1 for ripper).

**Reservoir capacity**..... 4 U.S. gal.

**System capacity**..... 6-3/4 U.S. gal.

**Pump**... Gear type, 15 or 23 gpm, 2,500 rpm (1,750 psi).

**Cylinders**... Two, double-acting, 3 in. x 12-1/8 in.

**Cylinder rods**..... Ground heat-treated, chrome-plated polished.

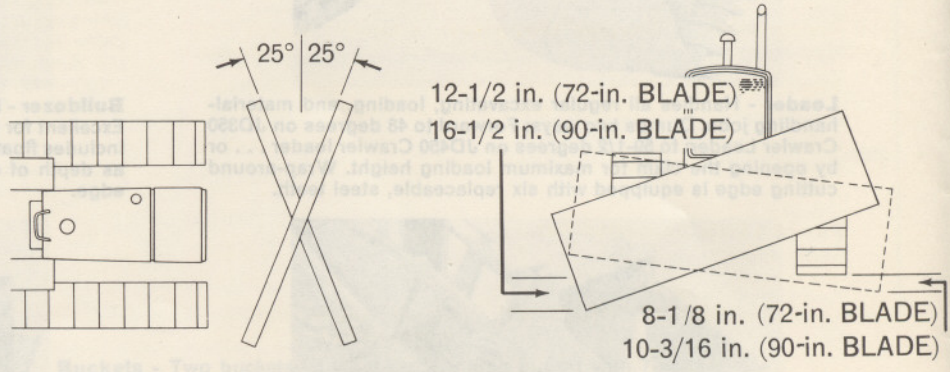
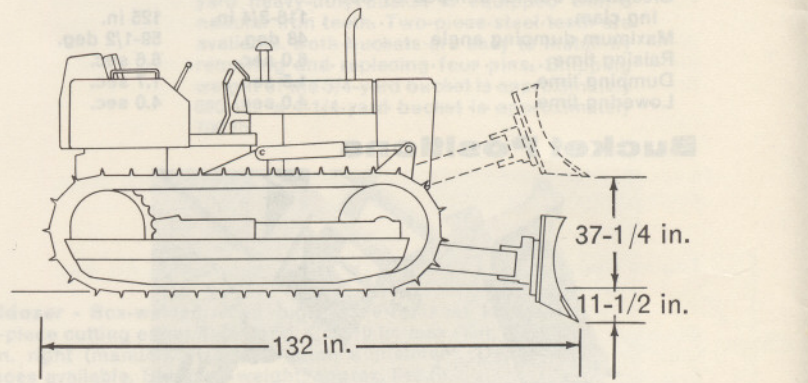
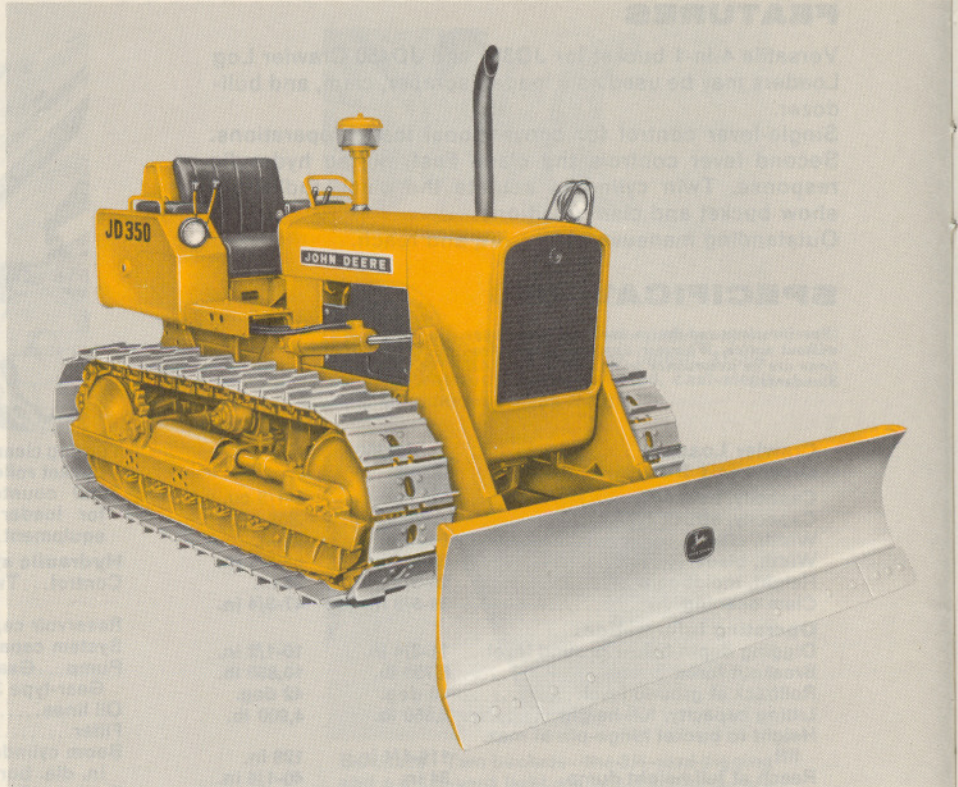
**Cylinder pivot pins**... Hardened steel (replaceable bushings).

### Shipping weight (Approximate):

Bulldozer and Crawler:	<b>Gasoline</b>	<b>Diesel</b>
with 72-in blade.....	9,140 lb.	9,210 lb.

Bulldozer only:	
with 72-in. blade.....	1,315 lb.
with 90-in. blade.....	1,440 lb.

**Special equipment**... Six 100-lb. front counterweights and brackets; for use in conjunction with 93 Series-A Backhoe. Adjustable depth shoes.



**JD350 WITH 6300 BULLDOZER—SPECIFICATIONS**

<b>Horsepower*</b> (at 2,500 engine rpm):	<b>Gasoline</b>	<b>Diesel</b>
Gross engine flywheel.....	46	46
Net engine flywheel. Engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, and alternator.....	42	42
Drawbar.....	30	30

**Travel Speeds and Drawbar Pull\*** (with adequate weight and traction)

Shift Lever Position	Travel Speed at 2,500 engine rpm	Drawbar lb. Pull at 2,500 engine rpm	Drawbar lb. Pull at maximum torque
1st	1.4	7,500	9,000
2nd	1.9	6,000	7,200
3rd	3.3	3,500	4,200
4th	6.5	1,500	1,800
Rev.	1.9		

\*Maximum under SAE standard conditions of 500 ft. altitude and 85° F. temperature.

**Direction Reverser.**... Provides each speed listed above in forward or reverse travel without shifting transmission gears. Hydraulically controlled. Oil clutches. Replaces engine clutch.

**Engine:** John Deere, variable speed, 3-cylinder, valve-in-head, 4-stroke cycle.

	<b>Gasoline</b>	<b>Diesel</b>
Bore and stroke.....	3-7/8 x 3-7/8 in.	3-7/8 x 4-5/16 in.
Piston displacement....	135 cu. in.	152 cu. in.
Compression ratio.....	7.5 to 1	16.3 to 1
Operating speed range.	1,500-2,500 rpm	1,500-2,500 rpm
Maximum torque.....	110 lb. ft.	110 lb. ft.
Rpm at maximum torque	1300	1300
N.A.C.C. or A.M.A. horsepower rated for tax purpose.....	17.88	17.88

**Lubrication...** (Gas and Diesel engines) Pressure system with full-flow filter.

**Crankshaft...** (Gas and Diesel engines) Induction-hardened, counterbalanced, statically and dynamically balanced.

**Main and connecting rod bearings.....** Steel-backed, aluminum-lined, removable.

<b>Main bearings:</b>		
Number.....	3	4
Diameter.....	3-1/8 in.	3-1/8 in.
Length (total).....	3.560 in.	4.715 in.

**Cooling (gas and Diesel engines).....** Pressurized; with water pump, thermostat, and fixed bypass. Suction or blower fan.

**Governor.....** Enclosed flyweight type      Flyweight integral with injection pump.

**Carburetor.....** Conventional updraft.

**Fuel injection pump.....** Opposed plunger, inlet metering, single cylinder, distributor type.

**Air cleaner.....** Dry type.      Dry type.

**Electrical system.....** 12-volt with alternator.      12-volt with alternator.

**Starting.....** 12-volt electric starter.      12-volt electric starter.

**Transmission...** Selective sliding gear, 4 forward speeds and 1 reverse.

**Engine Clutch...** Foot operated. 11-inch single disk. (Replaced by oil clutches when direction reverser is installed.)

**Steering.....** Clutch-brake system.

**Clutches.....** Multiple disk. 16 friction surfaces per clutch.

**Brakes.....** Contracting band. Bonded lining.

**Over-All Gear Reduction Ratio:**

In first gear.....	112 to 1
In high gear.....	24 to 1

**Hydraulic System...** Double with choice of crankshaft-driven pump—15 gpm or 23 gpm.

**Power Takeoff.....** Transmission driven, rear, 540 rpm. (Special equipment.)

**Track and Track Frame:**

Track rollers, each side.....	5
Track carrier roller, each side.....	1

Track shoes (types and sizes)....	Grouser, 12- or 14-inch. Open-center grouser, 12- or 14-in. Triple semi-grouser, open-center, 12-in. Snow shoes, 12- or 14-in. Rubber, 10-in.
Track pin diameter.....	1-3/16 in.
Track-pin bushing diameter.....	1-3/4 in.
Number of tracks shoes, each side.....	36
Total ground contact area (sq. in.):	
10-in. shoes.....	1,350
12-in. shoes.....	1,628
14-in. shoes.....	1,904
Ground pressure, 12-in. shoes (lb. per sq. in.).....	5.6
Length of track on ground.....	69-1/4 in.
Track gauge.....	48 in.
Adjustment.....	Hydraulic

**Dimensions**

Height to top of hood.....	52 in.
Over-all height with exhaust stack.....	76 in.
Over-all width (with 72-in. blade).....	72 in.
Over-all length.....	132 in.
Clearance at rear crossbar.....	13-1/4 in.

**Capacities (U.S. Measure):**

Cooling system.....	3-1/4 gal.
Fuel tank, gasoline and Diesel.....	22 gal.
Crankcase, including filter.....	9 qt.
Transmission.....	2-1/4 gal.
Final-drive cases (each).....	3 qt.
Direction reverser case.....	3 gal.

**Base Equipment:**

Clutch-brake steering system.	Alternator-charge gauge.
Front bottom guard.	Water-temperature gauge.
Heavy-duty track-roller guards.	Electric hour meter.
12-volt starter and electrical system.	Antifreeze.
Alternator.	Deluxe posture seat with arm-rests.
Key ignition switch with safety start.	Tool tray.
Suction fan.	Transistorized voltage regulator.
90 amp. dry-charge battery.	Hydraulic track-tension adjuster.
Air cleaner (dry-type).	Outer sprocket shields.
Slip-fit exhaust stack.	Lights: front, rear, and panel.
Front hitch.	Engine side shields.
Fuel filters.	Rear bottom guard.
Oil-pressure gauge.	Air cleaner restriction indicator.

**Special Equipment:**

Direction reverser.	Sprocket shields (inner).
Auxiliary remote hydraulic system and breakaway couplings.	Spark arrester muffler.
Remote hydraulic cylinder.	Power steering.
3-point hitch (Category 2).	Tachometer.
Power takeoff assembly and tachometer.	Winch drive.
Swinging drawbar.	Cigarette lighter.
Calks for triple semi-grouser shoes.	Pre-cleaner.
180 amp. hr. battery installation —two 90 amp. batteries (Diesel).	Belt pulley.
Notched snow sprockets.	Ether starting aid (Diesel).
High-altitude gasoline engine.	Blower fan.
Track shoe types and sizes as listed above.	Grille screen.
Engine coolant heater	Radiator sand screen for blower fan.
	Long muffler stack extension.
	Canopy and seat belt.
	Instrument panel cover.