



JD300 LOADERS

FEATURES

Two models for versatility.

43-flywheel horsepower, Diesel or gasoline.
8 forward, 4 reverse speeds.

Mechanical shuttle is regular equipment.
Hydraulic power-shift direction reverser for no-clutch reversing is special equipment.
Power steering regular equipment.

Choice of 1/2-yd. digging bucket, 5/8-yd. tread-width bucket, or 7/8-yd. light materials bucket on the 7300 model.

Choice of 5/8-yd. digging bucket, 3/4-yd. utility tread width bucket, or 1-yd. light materials bucket on the 7320 model.

Excellent visibility and operating ease.

May be used in conjunction with John Deere backhoes, mowers, and landscaping equipment.

Swing-around seat available for use with 92 or 9250 Backhoe.



SPECIFICATIONS

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

Bucket capacity (heaped) and width:

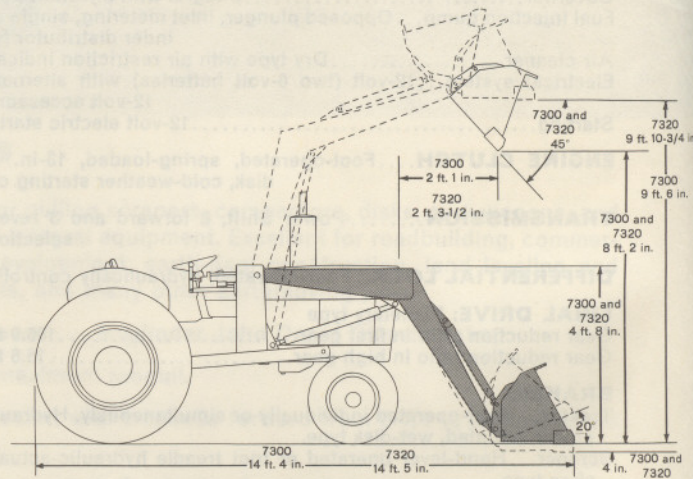
	7300 Loader	7320 Loader
1/2-cu. yd. - 65-1/2 in.	5/8-cu. yd. - 78-1/5 in.	3/4-cu. yd. - 81-1/10 in.
5/8-cu. yd. - 78-1/5 in.	7/8-cu. yd. - 78-1/5 in.	1 cu. yd. - 81-1/10 in.
7/8-cu. yd. - 78-1/5 in.		

Operating information

	7300 Loader	7320 Loader
Breakout force.....	3,000 lb.	4,000 lb.
Rollback at ground level.....	20 deg.	20 deg.
Dig depth below ground level.....	4 in.	4 in.
Lifting capacity, full height.....	2,000 lb.	2,650 lb.
Height to bucket hinge pin, maximum height.....	9 ft. 9-2/5 in.	10 ft. 2 in.
Clearance, bucket dump at 45°.....	8 ft. 2 in.	8 ft. 2 in.
Reach at maximum height, bucket dump at 45°.....	2 ft. 1 in.	2 ft. 3-1/2 in.
Maximum dump angle.....	45 deg.	45 deg.
Raising time to full height.....	3.6 sec.	3.7 sec.
Bucket dump time.....	1.7 sec.	1.6 sec.
Lowering time (power).....	3.2 sec.	2.0 sec.
Rollback time.....	2.5 sec.	2.6 sec.
Float-down time.....	3.0 sec.	2.1 sec.

Hydraulic system:

System pressure.....	2,250 psi	2,250 psi
Loader control.....	Two-lever, two-spool solid valve	Single-lever, one-spool solid valve
Pump...Piston-type, constant pressure, variable displacement, 7300—24 gpm, 7320—28 gpm at 2,500 engine rpm.		
Filter.....25-micron paper cartridge in return line.		
Loader hydraulic system capacity.....	2 U.S. gal.	2-1/2 U.S. gal.
Transmission reservoir capacity.....	10 U.S. gal.	10 U.S. gal.
Boom hydraulic cylinders:		
Bore diameter.....	2-1/4 in.	2-1/2 in.
Rod diameter.....	1-1/2 in.	1-1/2 in.
Stroke.....	24-5/8 in.	28-1/3 in.
Bucket hydraulic cylinders:		
Bore diameter.....	2-1/2 in.	2-1/2 in.
Rod diameter.....	1-1/4 in.	1-1/2 in.
Stroke.....	15-3/4 in.	27-1/4 in.
Minimum recommended rear ballast.....	2,000 lb.	2,500 lb.
Maximum recommended rear ballast.....	3,500 lb.	3,500 lb.



(7300 Loader illustrated)

Specifications and measurements shown on chart are given for a 7300 Loader with 1/2-yard standard bucket on JD300 Tractor equipped with 14.9-28, R-4, 6-ply rear tires and 7.50-16, I-1, 6-ply front tires.

Specifications and measurements are also shown on chart for a 7320 Loader with a 5/8-yard standard bucket on JD300 Tractor with 14.9-24, R-4, 6-ply rear tires and 7.50-16, I-1, 6-ply front tires.

JD300 LOADER SPECIFICATIONS

Horsepower (at 2,500 engine rpm):	Gasoline	Diesel
Gross engine flywheel.....	46	46
Net engine flywheel (at 500 ft. altitude and 85° F. temp.). Engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, and alternator.....	43	43

Travel speeds (mph) (with 14.9-24 rear tires and no slip):		2,500 Engine rpm
Shift Lever Position		
Forward 1		1.3
2		1.9
3		3.0
4		4.0
5		5.3
6		7.6
7		11.2
8		15.6
Rev. 1		1.6
2		2.2
3		3.3
4		4.6

Engine: Variable speed, 3-cylinder, valve-in-head, 4-stroke cycle.

	Gasoline	Diesel
Bore and stroke.....	3-7/8x3-7/8 in.	3-7/8x4-5/16 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 ft.-lb.	110 ft.-lb.
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.	
Rpm at maximum torque	1,300	1,300
Crankshaft.....	Induction-hardened, counterbalanced.	
Main and connecting rod bearings...	Steel-backed, aluminum lined, removable.	

Main bearings:		
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.	
Governor.....	Enclosed flyweight type	Flyweight incorporated in injection pump
Carburetor.....	Conventional up-draft	
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... Constant mesh, 8 forward speeds, 4 reverse (reverse speeds are 16 percent faster than corresponding forward speeds), with helical gears and sliding collars; mechanical shuttle.

Optional Direction Reverser..... Hydraulic wet clutches, no clutching required. Provides a reverse speed for gear selections 1 through 4.

Final Drive..... Planetary type

Over-all Gear Reduction Ratio:
In first gear..... 248 to 1
In high gear..... 21 to 1

Engine Clutch... Foot-operated automotive type with 10-inch plate. (Oil clutches when equipped with direction reverser.)

Brakes... Hydraulically actuated, wet-disk. Foot-operated individually or simultaneously.

Steering	Power
Turning radius (brakes applied).....	Approx. 121 in.
Turning clearance circle (brakes applied).....	7300 7320
Number of turns, far left to far right (power steering)...	30 ft. 10 in. dia. 29 ft. 6 in. 3-3/4 turns

Hydraulic System... Closed center. Special equipment—single rockshaft—remote-cylinder control. Crankshaft-driven 28 gpm pump.

Power Takeoff (Special Equipment):

Rear: Continuous "Live," 540 rpm; or dual speed 540-1,000 rpm.

Tires and Wheels (Sizes and plies):

Front: 6.00-16, 6-ply, multiple rib (7300 only)

7.50-16, 6-ply, multiple rib

7.50-16, 10-ply, multiple rib

11.00-15, 6-ply, multiple rib

Rear: 14.9-24, 6-ply grader-type

16.9-24, 8-ply grader-type and R-3 flotation

Wheel Treads:

Front.....	56 in.
Rear.....	60 in.

Dimensions (with 14.9-24 rear tires, 7.50-16 front tires):

	7300	7320
Height to top of hood.....	52-1/4 in.	52-1/4 in.
Over-all height (top of muffler).....	71-1/2 in.	71-1/2 in.
Over-all width.....	75 in.	75 in.
Over-all length.....	14 ft. 4 in.	14 ft. 5 in.
Wheelbase.....	77 in.	77 in.
Ground clearance (under front axle).....	18-1/4 in.	18-1/4 in.
Ground clearance, min.....	12 in.	12 in.

Weight (approximate):

Shipping (with digging bucket rockshaft, 3-point hitch, and drawbar).....	(Gasoline) 5,315 lb.	5,660 lb.
	(Diesel) 5,520 lb.	5,860 lb.

Capacities (U.S. Measure):

Cooling system.....	2-3/4 gal.
Fuel tank, gasoline and Diesel.....	16-1/2 gal.
Engine lubrication, including filter.....	7 qt.
Transmission hydraulic system.....	10 gal.

Base Equipment:

Oil pressure indicator light	Air cleaner (dry-type)
Alternator charge indicator light	Fuel gauge
Water temperature gauge	Power steering
Key-ignition switch with safety start	Anti-freeze
12-volt starter and electrical system	Cushioned seat
Alternator	Electric hour meter
Two 70 amp. dry-charge batteries	Vertical muffler
Electric lights (fender-mounted front and combination rear flood, tail light and flasher warning light)	Transistorized voltage regulator
Exhaust muffler cover	Fenders
	Constant-mesh transmission—8 forward and 4 reverse selections. Mechanical shuttle
	Fuel filter
	Foot throttle

Special Equipment:

Hydraulic system: Rockshaft—single or dual remote cylinder control with quick-connect couplers; breakaway couplers.	Hydraulic power-shift direction reverser
Three-point hitch: Category 1 with sway blocks or sway chains; Category 2 with sway blocks.	Differential lock
Quik-Coupler	Deluxe cushioned seat with shock absorber suspension
Swinging drawbar	Automotive-type horn
Hitch drawbar	Tachometer
Remote hydraulic cylinder	Protective roll frame with canopy (includes seat belt)
Rear-wheel weights	Enclosure for roll frame
Cigarette lighter	Swing-around seat
Tool box	
Pre-cleaner	
Ether starting aid (Diesel)	
Engine coolant heater	

Power Takeoff—Rear: Continuous "Live," 540 rpm or dual speed 540-1,000 rpm.