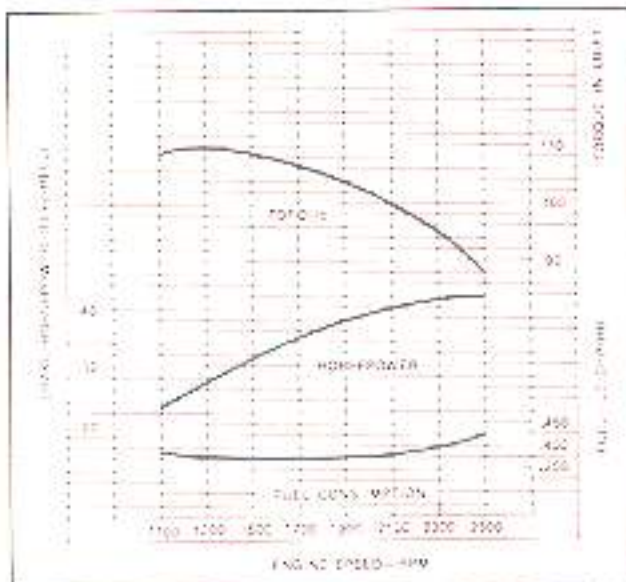




JD350-B CRAWLER



ENGINE PERFORMANCE



Curves shown are for an engine complete with fuel system, water pump, lubricating pump, air cleaner, alternator, fan and muffler.

Data shows performance observed at conditions of 29.38 in. of mercury barometric pressure (500 ft.) and 85°F. air temperature.

FEATURES

- John Deere, 3-cylinder, gasoline or Diesel engine
- Four-speed transmission w/hydraulic direction reverser
- Power steering
- 5-roller track frames w/rock guards
- Hydraulic track adjustment
- Vandal protection

May be equipped with:

- Inside-mounted, all-hydraulic bulldozer
- Inside-mounted manual tilt and angle bulldozer
- Outside-mounted manual tilt and angle bulldozer
- Wide-track
- Brush and rock rake
- Integral log arch
- Winch
- Backhoe
- Rotoboom hydraulic swing crane
- Ripper
- Sideboom

SPECIFICATIONS—JD350-B LOADER

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with (EMC and SAE Standards. Except where otherwise noted, these specifications are based on a unit equipped with 3/4 cu. yd. (0.57 m³) digging bucket w/teeth, no roll-over protective structure, Diesel engine, and standard equipment.)



Horsepower (@ 2,500 engine rpm):	Gasoline and Diesel	
	SAE	DIN
Gross	46	
Net	42	44.6 PS

Net engine flywheel horsepower is for an engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, alternator and muffler. The 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, 3-cylinder, valve-in-head, 4-stroke cycle

	Gasoline	Diesel
Bore and stroke	3.86 x 3.86 in. (98 x 98 mm)	3.86 x 4.33 in. (98 x 110 mm)
Piston displacement	135 cu. in. (2212 cm ³)	152 cu. in. (2491 cm ³)
Compression ratio	7.5 to 1	16.7 to 1
Governed speed range	750-2,650 rpm	
Maximum torque @ 1,300 rpm	110 lb.-ft. (15.2 kg-m)	
NACC or AMA (U.S. Tax) horsepower	17.88	
Main bearings	3	4
Lubrication	Pressure with full-flow filter	
Cooling	Pressurized with thermostat and fixed bypass fan	
Air cleaner	Blower-type Dry-type	
Electrical and starting system	12-volt with alternator	

Hydraulic Direction Reverser:

Multiple-disk oil clutches provide identical forward and reverse speeds within gears without clutching.

Transmission: Selective sliding gear; 4 forward, 1 reverse

Travel Speeds (@ 2,500 engine rpm, no track slip):

Shift Lever Position	mph	km/h
1	1.4	2.3
2 or Rev.	1.9	3.1
3	3.3	5.3
4	6.6	10.4

Standard Equipment:

Bucket-level indicator
Deluxe cushion seat w/arm rests
Hydraulic track-tension adjuster
Front hitch
Bottom guard counterweight w/fixed drawbar
Key-switch w/push-button safety start
90-amp. battery
Radiator sand shield
Engine disconnect clutch
Engine side shields
Air cleaner-restriction indicator
Lights (front, rear, and panel)
Vandal protection
Electric hour meter
Cigar lighter
Pre-cleaner
Tool tray
Fuel strainer
Grease gun
Trash-resistant radiator
Inner sprocket shields

Special Equipment:

PTO (540 rpm)
Spark-arrester muffler
Engine-coolant heater
Two 90-amp. batteries
Ether starting aid (Diesel)
Suction fan
Tachometer
Manual steering
Return-to-dig
Rear counterweight for multi-purpose bucket or forestry loader
2-piece steel bucket teeth for 3/4 cu. yd. (0.57 m³) digging bucket only
Roll-over protective structure w/canopy and seat belt
Cab (includes roll-over protective structure)

Winch drive
Winch
Winch fairlead and drawbar
Integral log arch
Rotaboom hydraulic swing crane
Ripper
Backhoe
Log and Pulpwood fork
Basic Lumber fork
10 in. (254 mm) rubber track shoes

Steering: Hydraulic power-assist

Clutches: 9 in. (229 mm); 8 disks per clutch
Brakes: Contracting band; bonded lining

Tracks (5-roller track frames w/rock guards):

Triple semi-grouser, open center	12 in. (305 mm)
Track shoes, each side	36
Ground contact area	1,562 sq. in. (10,723 cm ²)
Ground pressure	7.2 psi (0,506 kg/cm ²)
Length of track on ground	59.3 in. (1.76 m)
Track gauge	4 ft. (1.22 m)
Carrier roller	1
Adjustment	Hydraulic

Capacities:

	U.S.	Liters
Cooling system	3.25 gal.	12.3
Fuel tank	22 gal.	83.0
Crankcase, including filter	9 qt.	8.5
Transmission	9 qt.	8.5
Final-drive (each)	3 qt.	2.8
Direction reverser	12 qt.	11.3
Loader hydraulic reservoir	5.75 gal.	21.8
Loader hydraulic system	12.5 gal.	47.3

Dimensions:

Height to top of hood	4 ft. 4 in. (1.32 m)
Over-all height w/exhaust stack	7 ft. (2.13 m)
Over-all width at bucket	5 ft. 6 in. (1.68 m)
Over-all length	12 ft. 0.6 in. (3.67 m)
Clearance at rear crossbar	1 ft. 1.25 in. (337 mm)

Operating Weight (approx.):

Gasoline	11,860 lb. (5379 kg)
Diesel	11,930 lb. (5412 kg)



DROTT BUCKETS FOR CRAWLER LOADERS



FEATURES

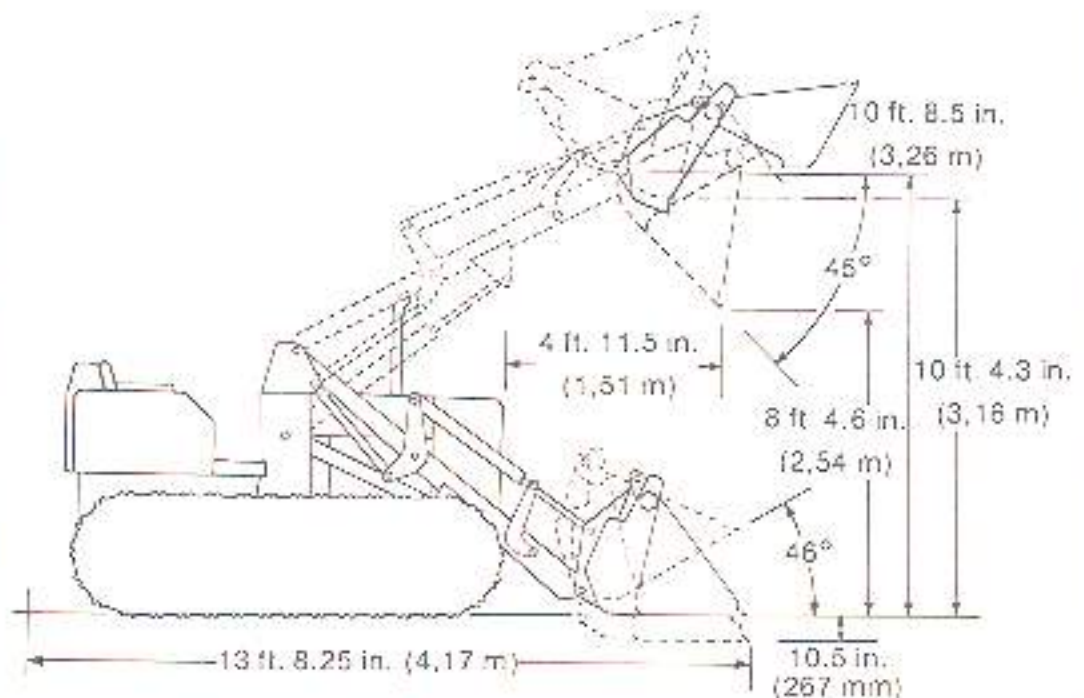
For JD350-B and JD450-B Crawler Loaders

May be used as loader, scraper, clam,
and bulldozer

Single control lever for loader functions

Second lever controls twin clam cylinders

Bucket and clam position indicator



DIMENSIONS are for JD450-B Crawler Loader with 1-1/4 cu. yd. (0.96 m³) Drott 4-in-1 Bucket.

SPECIFICATIONS—DROTT BUCKETS FOR CRAWLER LOADERS

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



Drott 4-in-1 Bucket:	JD350-B	JD450-B		JD350-B	JD450-B
Capacity, heaped	3/4 cu. yd. (0.57 m ³)	1-1/4 cu. yd. (0.96 m ³)	Turning clearance circle (carry height, bucket rolled back)	19 ft. 2 in. (5.84 m)	20 ft. 11 in. (6.38 m)
Capacity, struck	632 cu. yd. (0.48 m ³)	1 cu. yd. (0.76 m ³)	Total counterweight recommended for loader without rear-mounted equipment	800 lb. (363 kg)	1,600 lb. (726 kg)
Width, clam	86 in. (1.68 m)	72.6 in. (1.84 m)	Hydraulic System:		
Width, blade	86.6 in. (1.80 m)	73 in. (1.85 m)	Control	2 levers; triple hydraulic system	
Height, mold-board	3 ft. (914 mm)	3 ft. 6 in. (1.07 m)	Reservoir capacity	5.75 U.S. gal. (21.8 liters)	7 U.S. gal. (26.5 liters)
Clam opening	3 ft. 3.6 in. (1.01 m)	3 ft. 11.62 in. (1.21 m)	System capacity	12.5 U.S. gal. (47.3 liters)	13 U.S. gal. (49.2 liters)
Operating Information:			Pump, gear type, at 2,500 engine rpm and 2,250 psi (158.2 kg/cm ²)	23 gpm (87 lpm)	28 gpm (106 lpm)
Digging depth below ground level	1 ft. 4.3 in. (414 mm)	1 ft. 5.9 in. (455 mm)	Oil lines	Steel tubing; double-wire-braid hose	
Breakout force	8,800 lb. (3992 kg)	13,000 lb. (5897 kg)	Filter	Dual filtration, micron and wire mesh	
Rollback at ground level	50°	46°	Boom cylinders:		
Lifting capacity, full height	7,600 lb. (3447 kg)	8,800 lb. (3992 kg)	Bore	3.75 in. (95 mm)	4.25 in. (108 mm)
Height to bucket: hinge-pin at max. lift	9 ft. 11.5 in. (3.04 m)	10 ft. 8.5 in. (3.26 m)	Stroke	27.8 in. (706 mm)	28.25 in. (718 mm)
Reach at full height dump	4 ft. 0.8 in. (1.24 m)	4 ft. 11.5 in. (1.51 m)	Bucket cylinders:		
Clearance, bucket dumped at 45°	7 ft. 10 in. (2.39 m)	8 ft. 4.6 in. (2.54 m)	Bore	2.75 in. (70 mm)	3.5 in. (89 mm)
Clearance, bucket dumped by opening clam	9 ft. 8.9 in. (2.97 m)	10 ft. 4.3 in. (3.16 m)	Stroke	30.5 in. (775 mm)	31.1 in. (790 mm)
Maximum dumping angle	50°	57.5°	Piston rods	Ground, heat-treated, chrome-plated, polished	
Raising time	6.6 sec.	7.1 sec.	Boom cylinders	2 in. (51 mm) dia.	2.25 in. (57 mm) dia.
Dumping time	1.5 sec.	1.7 sec.	Bucket cylinders	1.5 in. (38 mm) dia.	2 in. (51 mm) dia.
Lowering time	4 sec.	4 sec.	Shipping Weight (approx.):		
			Bucket w/o teeth	1,027 lb. (466 kg)	1,600 lb. (726 kg)
			Bucket w/ teeth	1,053 lb. (482 kg)	1,650 lb. (748 kg)

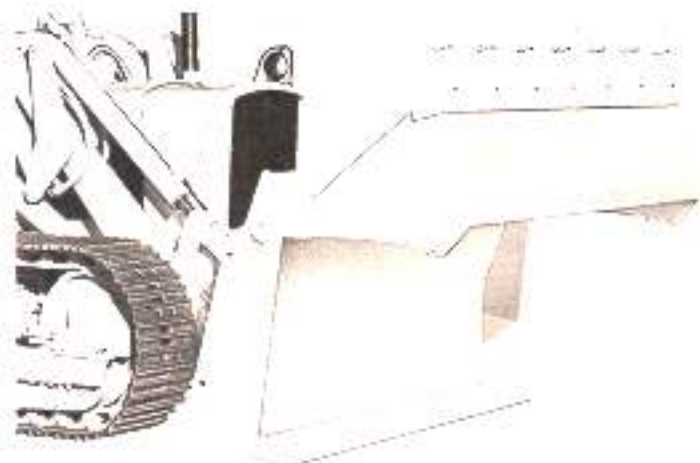
BUCKET POSITIONS



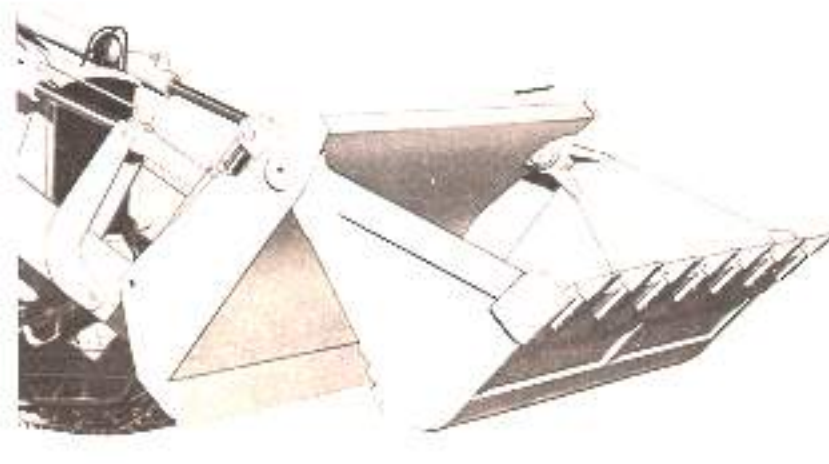
Loader—Handles all regular excavating, loading, and material-handling jobs. Dumps two ways: Forward to 50 degrees on JD350-B Crawler Loader; to 57.5 degrees on JD450-B Crawler Loader or by opening the clam for maximum loading height. Wrap-around cutting edge is equipped with six replaceable, steel teeth.



Scraper—Builing action fills the bucket and breaks up material for fast, even spreading. Indicators show positions of bucket and clam. Precision control permits accuracy essential for sidewalk and driveway work.



Bulldozer—High, load-shaped moldboard keeps load rolling. Excellent for grading and backfilling. Two-lever, hydraulic control includes float position. Can be adjusted precisely for pitch as well as depth of cut. Moldboard equipped with full-length cutting edge.



Clam—Picks up loose material while standing still, bulldozing, or backdragging. Permits extra care in cutting terraces. Snaps up aggregate, rock, dirt, trash, brush, logs—quickly, neatly. Twin hydraulic cylinders control the clam.