



# 450E LONG-TRACK BULLDOZER

## FEATURES

75 SAE net hp (56 kW)

Power Shift Hi-Lo-Reverse

Dura-Trax™ undercarriage with boron-steel deep-heat-treated, strutted, sealed track links; deep-heat-treated sealed rollers; boron-steel through-hardened grousers; sealed front idler and carrier roller

Self-adjusting, oil-cooled steering clutches and brakes

Roll-over protective structure (ROPS)

Vandal protection

## ADD VERSATILITY WITH:

Winch

Fairlead and drawbar

Integral log arch

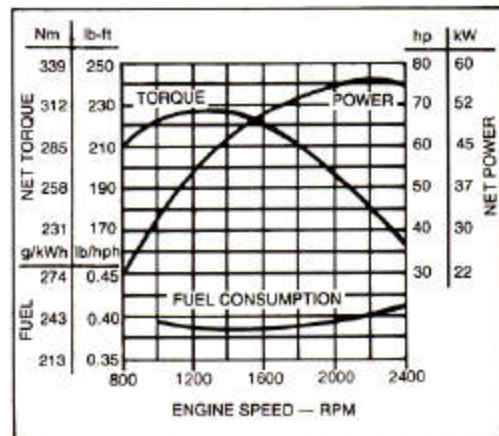
Backhoes

Slideboom

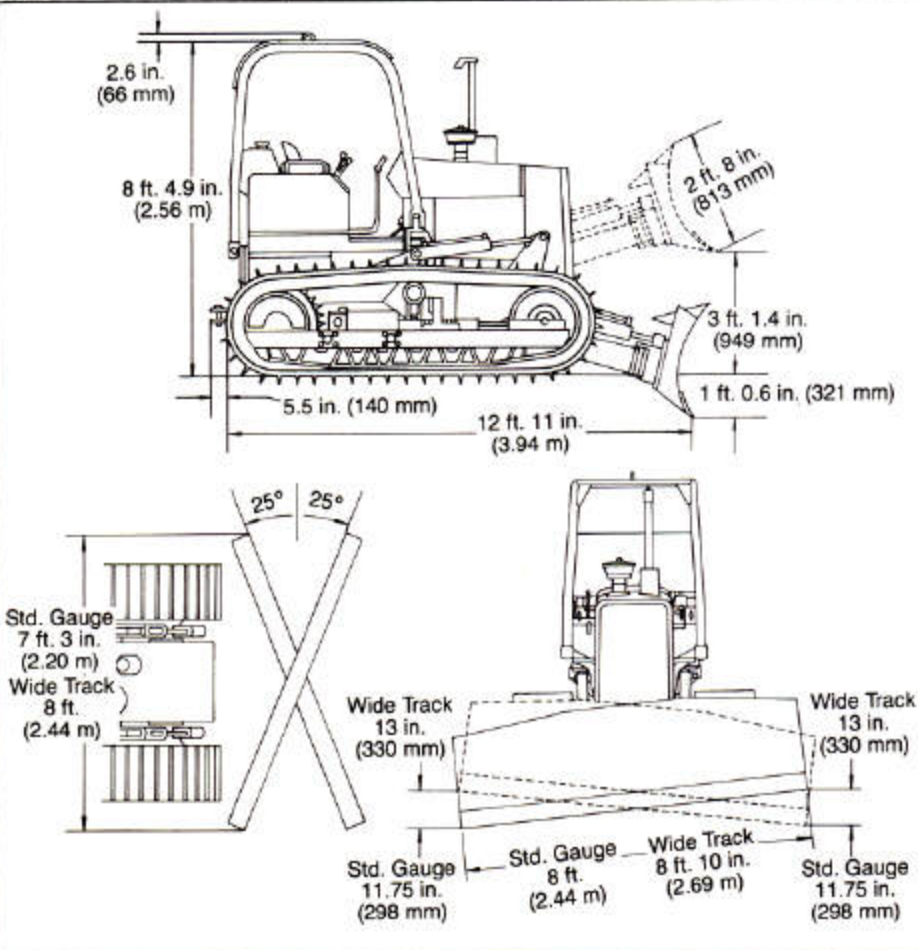
Cable plow

Ripper

## ENGINE PERFORMANCE



Model shown may include options



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# 450E LONG-TRACK BULLDOZER SPECIFICATIONS

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE Standards. Except where otherwise noted, these specifications are based on a unit with roll-over protective structure, full fuel tank, 175-lb. (79 kg) operator and standard equipment.)

Rated Power @2400 rpm:	SAE	DIN 6270
Net	75 hp (56 kW)	57 kW
Gross	79 hp (59 kW)	
Drawbar	56 hp (41.8 kW)	

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 6270, using No. 2-D fuel @35 API gravity. No derating is required up to 5,000 feet (1500 m) altitude. Gross power is without cooling fan.

**Engine:** John Deere 4-276D

Type	4-stroke cycle, naturally aspirated diesel	
Bore and stroke	4.19 x 5.00 in. (106.4 x 127 mm)	
No. of cylinders	4	
Displacement	276 cu. in. (4,524 L)	
Maximum net torque @1200 rpm	228 lb-ft (309 Nm) (31.5 kg-m)	
Torque rise	39 percent	
Cooling fan	Blower	
Compression ratio	16.8 to 1	
Main bearings	5	
Lubrication	Pressure system w/full-flow filter	
Air cleaner w/restriction indicator	Dry	
Electrical system	12 volt w/alternator	
Battery (12 volt)	Reserve capacity: 180 minutes	

**Transmission** H-L-R: 4 speed ranges; with high, low and reverse speeds shifted hydraulically without clutching in each range.

**Clutch** 11 in. (279 mm) single-disk

Gear:	Travel Speeds		Gear:	Travel Speeds	
	mph	(km/h)		mph	(km/h)
Range 1			Range 3		
Low	1.3	2.1	Low	2.9	4.7
High	1.8	2.9	High	4.2	6.8
Reverse	1.7	2.7	Reverse	4.0	6.4
Range 2			Range 4		
Low	2.0	3.2	Low	4.5	7.2
High	2.8	4.5	High	6.3	10.1
Reverse	2.7	4.3	Reverse	6.1	9.8

## DRAWBAR PULL

(with adequate weight and traction)

Gear:	@Maximum Engine Torque			@Rated Engine Speed		
	lb.	(kN)	(kg)	lb.	(kN)	(kg)
Range 1						
Low	21,200	94.3	9610	15,500	68.9	7030
High	14,400	64.1	6530	10,800	48.0	4900
Range 2						
Low	12,900	57.4	5850	9,800	43.6	4440
High	10,500	46.7	4760	6,700	29.8	3040
Range 3						
Low	10,100	44.9	4580	6,900	30.7	3130
High	6,100	27.1	2770	4,100	18.2	1860
Range 4						
Low	5,700	25.4	2580	3,700	16.4	1680
High	3,600	16.0	1630	2,500	11.1	1130

## Steering:

Steering clutches and brakes are controlled by a single lever for each track (pedal steering optional). A pedal provides braking, and lock-down for parking.

Clutches Oil-cooled, hydraulically actuated, multiple-disk,

11 in. (279 mm) disks; 16 friction surfaces per clutch.

Brakes Self-adjusting, self-energizing, oil-cooled contracting band with bonded lining.

## Optional or Special Equipment:

Altitude compensating engine turbocharger

Auxiliary control valve

Brush screens

Cab (includes ROPS)

Cast steel end bits

Cold-weather starting aid

Front idler shields

Lights

Limb risers and overhead exhaust

Master electrical disconnect switch

Pedal steering

PTO (1000 rpm)

Swinging drawbar

13-in. (330 mm) rubber shoes

Two batteries

Winch drive

## Hydraulic System:

Control	Dual-lever, triple hydraulic system	
Pump	Gear, 17 or 23 gpm (1.07 or 1.45 L/s)	
Pressure	2250 psi (15,514 kPa) (158.2 kg/cm <sup>2</sup> )	

## Hydraulic Cylinders:

	Bore	Stroke
Lift, two	3.5 in. (89 mm)	15 in. (381 mm)
Angle, two	3.5 in. (89 mm)	13.375 in. (343 mm)
Tilt, one	3.5 in. (89 mm)	3 in. (76 mm)
Cylinder rods	Ground, heat-treated, chrome-plated, polished	
Cylinder pivot pins	Hardened steel (replaceable bushings)	

**Undercarriage:** 6-roller track frame with Dura-Trax™ deep-heat-treated components.

Standard gauge	18 in. (457 mm)	
Grouser	39	
Track shoes, each side	39	
Ground contact area	2959 sq. in. (19,056 cm <sup>2</sup> )	
Ground pressure	5.2 psi (35.8 kPa) (0.366 kg/cm <sup>2</sup> )	
Length of track on ground	82.2 in. (2088 mm)	
Track gauge	54 in. (1372 mm)	
Carrier roller	1	
Adjustment	Hydraulic	
Clearance at rear crossbar	14.25 in. (362 mm)	
Wide Track		
Grouser	24 in. (610 mm)	
Track shoes, each side	39	
Ground contact area	3946 sq. in. (25,458 cm <sup>2</sup> )	
Ground pressure	4.0 psi (27.3 kPa) (0.281 kg/cm <sup>2</sup> )	
Length of track on ground	82.2 in. (2088 mm)	
Track gauge	60 in. (1524 mm)	
Carrier roller	1	
Adjustment	Hydraulic	
Clearance at rear crossbar	14.25 in. (362 mm)	

## Blade: Reinforced, box-welded

Cutting edge	3-piece, reversible, replaceable
Center section	0.625 in. (16 mm)
End bits	0.75 in. (19 mm)

## Capacities:

	U.S.	Liters
Cooling system	4.2 gal.	16.0
Fuel tank	36 gal.	136
Crankcase, including filter	15 qt.	14.2
Transmission	8 gal.	30.3
Final drive (each)	6.25 qt.	5.9
Hydraulic reservoir	7.0 gal.	26.5
Hydraulic system	10.5 gal.	39.8
Steering clutch housing (each)	14 qt.	13.2

## Additional Standard Equipment:

Adjustable cushion seat and armrests	Horn
Chain guides	Isolated ROPS w/canopy and seat belt
Electric hourmeter	Key switch start
Enclosed alternator w/solid state regulator	Muffler
Engine sideshields, perforated	Precleaner
Front hitch	Trash-resistant radiator
Front/rear bottom guard	Vandal protection

## SAE Operating Weight w/ROPS:

Standard Gauge	15,350 lb. (6960 kg)
Wide Gauge	15,950 lb. (7230 kg)

