

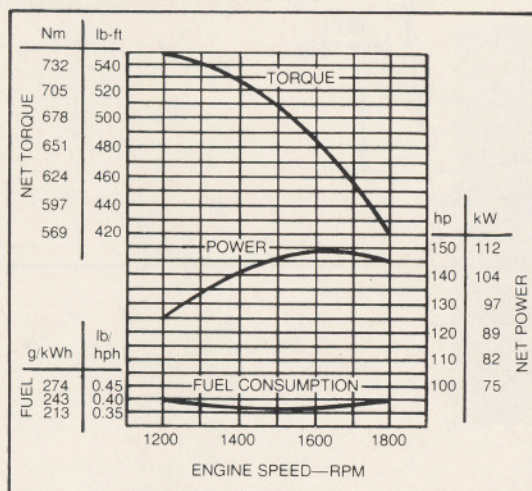


850 LGP* BULLDOZER



Model shown may include options

ENGINE PERFORMANCE



Note: The 850 LGP Bulldozer is designed to work in mud, snow or other soft ground conditions. Frequent misapplication in rocky or hard ground will decrease undercarriage life and may cause component damage.

*Low Ground Pressure

FEATURES

- 145 SAE net hp (108 kW)
- Dual-Path automatic hydrostatic drive with infinitely variable speeds up to 6.5 mph (10.5 km/h)
- Single lever for speed and direction control
- Levers or pedals for independent track control steering
- Full power turns
- No steering clutches or steering brakes
- Automatically engaged parking brake
- Perforated hood and engine side shields
- Dual-stage aspirated dry-type air cleaner
- DURA-TRAX™ undercarriage includes 38-in. (965 mm) single-bar track shoes for flotation, deep-hardened track links and track rollers
- Designed for quietness
- Roll-over protective structure (ROPS)
- Single-lever dozer control w/hydraulic tilt and blade float position

ADD VERSATILITY WITH

- Winch
 - Regular or slow-speed gear
 - Free-spool option
 - 3- or 4-roller fairlead
- Drawbar
 - Rigid
 - Swinging

850 LGP 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 canopy, 38 in. (965 mm) grousers, full fuel tank, 175 lb. (79 kg) operator, and standard equipment.)

Rated Power @1800 rpm:

	SAE	DIN 6270
Net	145 hp (108 kW)	108 kW
Gross	165 hp (123 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 10,000 feet (3050 m) altitude. Gross power is without cooling fan.

Engine: John Deere 6-619T

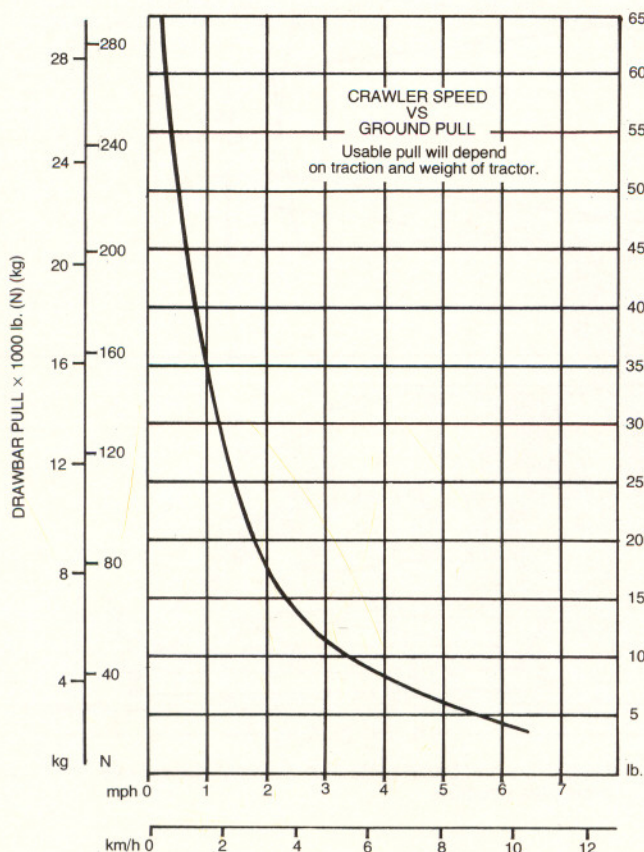
Type	4-stroke cycle, turbocharged diesel
Bore and stroke	5.12 x 5.00 in. (130 x 127 mm)
No. of cylinders	6
Displacement	619 cu. in. (10.145 L)
Maximum net torque @1200 rpm	550 lb-ft (746 Nm) (76.1 kg-m)
Cooling fan	Blower
Compression ratio	15.2 to 1
Main bearings	7
Lubrication	Pressure system w/full-flow filters
Dual-stage aspirated air cleaner	Dry
Electrical system	24 volt w/alternator
Batteries (two 12-volt) cold cranking capacity at 0°F (-18°C)	570 amps
Reserve capacity: 180 minutes each	

Transmission:

Cold weather starting Disconnect clutch completely disengages splitter drive, hydrostatic drive and all hydraulics.
 Splitter drive Pressure-lubricated helical gears drive both hydrostatic transmissions, main hydraulic pump, winch drive shaft and auxiliary pump drive.
 Drive Dual-Path, fully automatic, infinitely variable hydrostatic transmissions.
 Speeds Infinitely variable from 0 to 6.5 mph (0 to 10.5 km/h) forward or reverse.
 Control Single-lever, sets max. speed, forward and reverse.

Drawbar Pull:

Maximum drawbar pull 65,000 lb. (289 kN) (29 484 kg) at 0.20 mph (0.33 km/h)



Steering:

Fully modulated infinitely variable lever steering for live power turns and counterrotation. Pedal steering optional with ROPS, standard with cab. No need for steering clutches or steering brakes.

Brakes:

Service Hydrostatic
 Parking Wet-disk brakes are automatically applied when engine is stopped, or operator-applied with center pedal during normal operation.

Hydraulic System: Open-center

Control Single-lever, two-function control
 Pump Vane, 38 gpm (2.40 L/s) @ rated engine speed
 Pressure 2250 psi (15 514 kPa) (158.2 kg/cm²)

Hydraulic Cylinders:

	Bore	Stroke
Lift, two	4.25 in. (108 mm)	40.16 in. (1020 mm)
Tilt, one	6.25 in. (159 mm)	4.41 in. (112 mm)
Cylinder rods	Ground, heat-treated, chrome-plated, polished	

Tracks: 7-roller track frame w/front, center and rear track guides and sprocket guard. DURA-TRAX™ sealed chain, deep-hardened track links and rollers provide maximum wear resistance.

Shoe width 38 in. (965 mm)
 Track shoes, each side 43
 Ground contact area 9044 sq. in. (58 352 cm²)
 Ground pressure 4.86 psi (33.5 kPa) (0.34 kg/cm²)
 Length of track on ground 119 in. (3.02 m)
 Track gauge 88 in. (2.24 m)
 Oscillation (at front idler) 15.7 in. (399 mm)
 Carrier rollers 2 each side
 Adjustment Hydraulic
 Minimum ground clearance:
 With single bar grouser (excluding grouser height) 16.0 in. (406 mm)
 With swamp shoe (including grouser height) 19.3 in. (490 mm)

Cutting Edge:

Center section, heat-treated boron steel, reversible 0.75 in. (19 mm)
 End bits, boron steel 0.75 in. (19 mm)

Capacities:

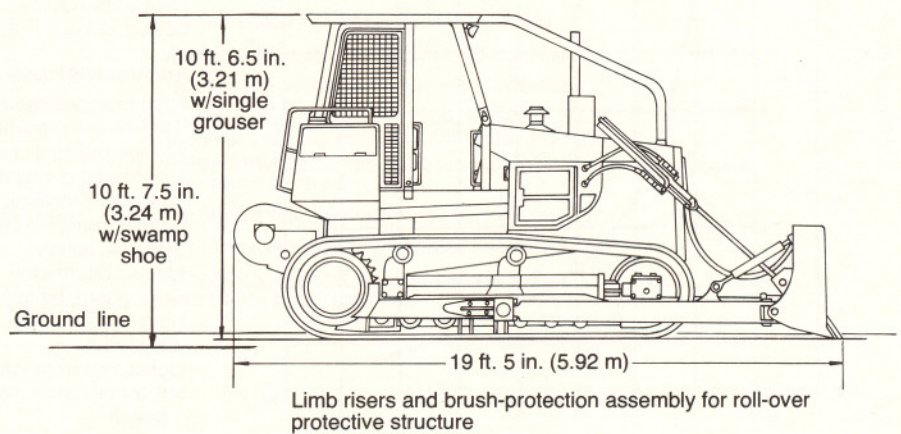
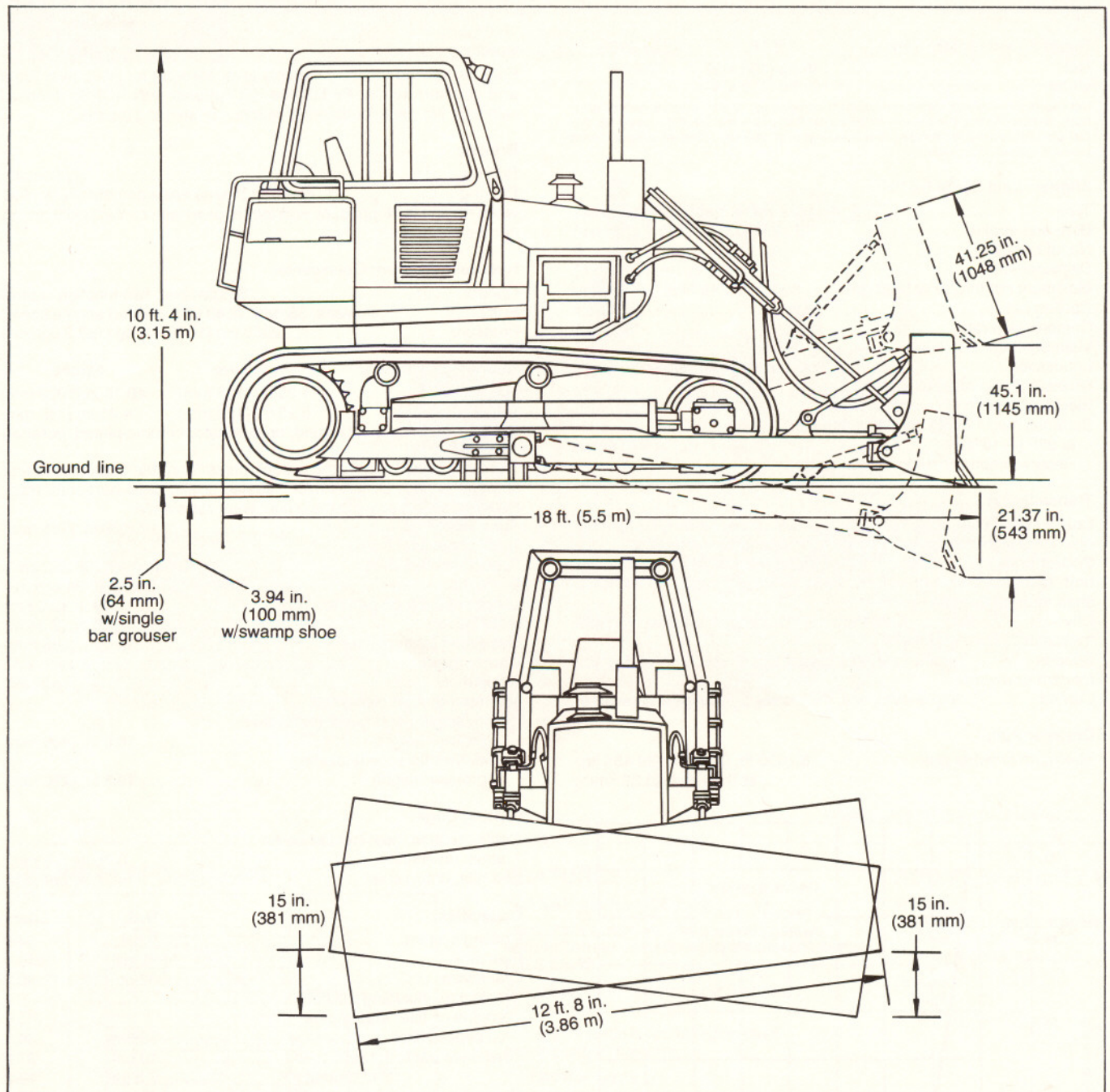
	U.S.	Liters
Cooling system	9 gal.	34.0
Fuel tank	82 gal.	310.4
Crankcase	32 qt.	30.3
Crankcase, including full flow engine oil filter and engine oil bypass filter	36.5 qt.	34.5
Final drive each: 1st reduction	10 gal.	37.9
2nd reduction	3.5 gal.	13.2
Hydraulic system	35 gal.	132.5
Hydrostatic drives	40 gal.	151.4
Splitter drive	1.5 gal.	5.7

Additional Standard Equipment:

Alternator, enclosed w/16-amp solid-state regulator	Muffler, self-draining, eliminating external rain cap
Air cleaner, dual-stage aspirated dry-type	Perforated, hinged lockable engine side shields
Air cleaner restriction indicator	Perforated hood
Bottom guards, front and rear	Pushbutton starting
Cigarette lighter	ROPS canopy w/3-in. (76 mm) seat belt
Electric hourmeter	Suspension seat w/armrests
Grille guard, hinged	Transmission neutral lock w/starter safety switch
Horn	Toolbox, lockable
Key switch	Vandal protection
Lights, two front, one rear	Winch drive
Master electrical disconnect switch	

SAE Operating Weight w/ROPS 44,000 lb. (19 960 kg)

850 LGP BULLDOZER DIMENSIONS

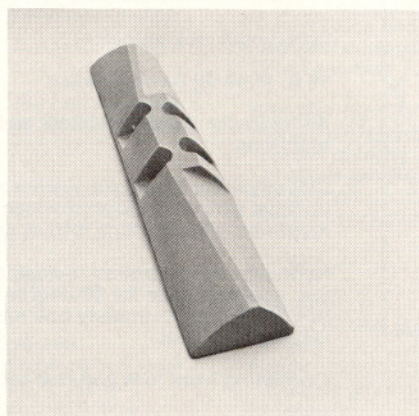


850 LGP BULLDOZER

Optional or Special Equipment with Weights:

(Add these weights to SAE Standard Equipment operating weights to obtain total operating weights.)

	lb.	kg
Alternator, 50 amp, heavy-duty, brushless	21	10
Batteries (two 12-volt) cold cranking capacity @ 0°F (-18°C) 800 amps; reserve capacity 310 min. each	105	48
Cab with pressurizer, heater, 50-amp alternator and regular hood	418	190
Air conditioner	108	49
Windshield washer	3	1
Cold weather starting aid	2	1
Cupped end bits	7	3
Drawbar, fixed	270	122
Engine coolant heater	2	1
Fan, reversible	40	18
Fire extinguisher	6	3
Front pull hook	33	15
Fuel filter, water separator	6	3
Hydraulics:		
Hydraulic lines to rear	4	2
Hydraulic valve, third function	10	5
Selector valve and lines to rear	14	6
Oil sampling kit	2	1
Pedal steering	-12	-5
Pedal extensions	7	3
Protection items:		
Brush screen, heavy-duty third-post type	275	125
Brush screens, regular-duty	72	33
Grille plate, heavy-duty, hinged	124	56
Guards, bottom, heavy-duty	281	127
Guards, lift cylinder	44	20
Guards, final-drive seal	38	17
Limb risers	353	160
Rear screen	50	23
Roof extension	475	215
Tank protection	663	301
Tilt cylinder hose protection	5	2
Radiator sand shield	25	11
Reverse warning alarm	10	5
Tracks:		
Dura-Trax™ lubricated chain w/split master link		
38-in. (965 mm) single bar grouser	0	0
38-in. (965 mm) variable penetration swamp shoe	-950	-431



Variable penetration
swamp shoe