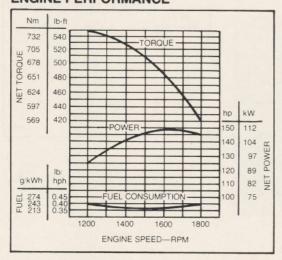


# 850 LGP\* BULLDOZER



# **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 gearing 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	<b>DIN 6270</b>
Net	145 hp (108 kW)	108 kW
Net	165 hp (123 kW)	
Alexander and to the standard of the		

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

anginer com been control
Type 4-stroke cycle, turbocharged diesel
Bore and stroke
No. of cylinders
Displacement
Maximum net torque @1200 rpm 550 lb-ft (746 Nm) (76.1 kg-m)
Cooling fanBlower
Compression ratio
Main bearings7
Lubrication Pressure system w/full-flow filters
Dual-stage aspirated air cleaner Dry
Electrical system
Batteries (two 12-volt) cold cranking capacity
at 0°F (-18°C)
Reserve capacity: 180 minutes each

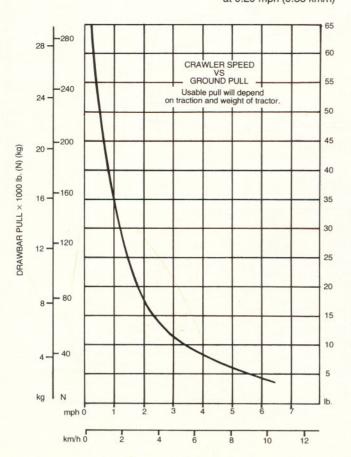
#### Transmission

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:**

ring

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	0 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 Grou	und, heat-treated, chro	ome-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.

links and rollers provide maximum wear resistance.	
Shoe width	nm)
Track shoes, each side	43
Ground contact area 9044 sq. in. (58 352 c	
Ground pressure 4.86 psi (33.5 kPa) (0.34 kg/c	m <sup>2</sup> )
Length of track on ground	m)
Track gauge	
Oscillation (at front idler)	nm)
Carrier rollers	ide
Adjustment Hydra	ulic
Minimum ground clearance:	
With single bar grouser (excluding	
grouser height)	nm)
With swamp shoe (including	
grouser height)	nm)

#### **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		310.4
Crankcase		30.3
Crankcase, including full flow engine oil filter and engine	•	
oil bypass filter	. 36.5 qt.	34.5
Final drive each: 1st reduction		37.9
2nd reduction	. 3.5 gal.	13.2
Hydraulic system	. 35 gal.	132.5
Hydrostatic drives	. 40 gal.	151.4
Splitter drive		5.7

#### **Additional Standard Equipment:**

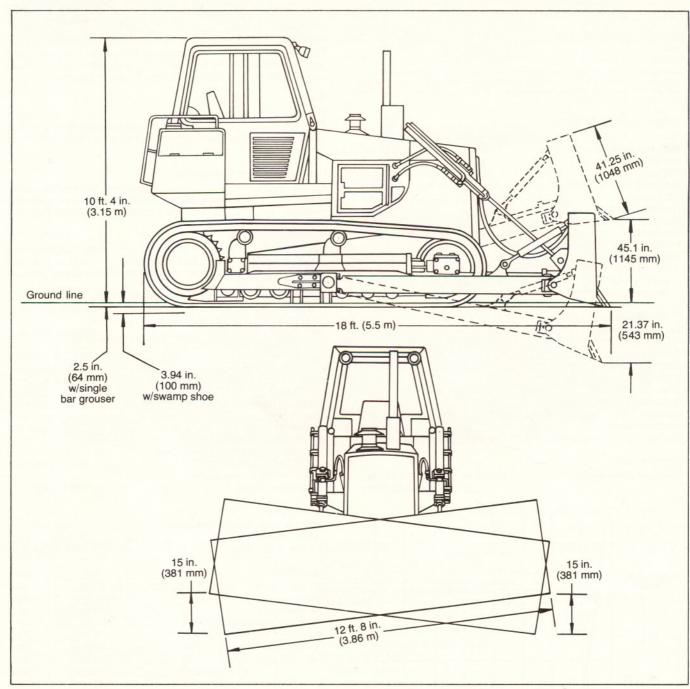
Alternator, enclosed w/16-amp solid-state regulator
Air cleaner, dual-stage
aspirated dry-type
Air cleaner restriction indicator
Bottom guards, front and rear
Cigarette lighter
Electric hourmeter
Grille guard, hinged
Horn
Key switch
Lights, two front, one rear
Master electrical disconnect

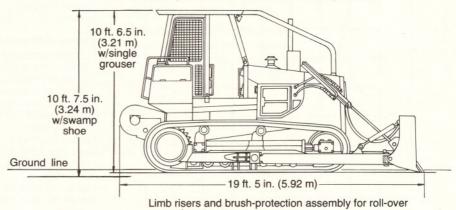
switch

Muffler, self-draining, eliminating external rain cap
Perforated, hinged lockable engine side shields
Perforated hood
Pushbutton starting
ROPS canopy w/3-in. (76 mm) seat belt
Suspension seat w/armrests
Transmission neutral lock w/starter safety switch

safety switch Toolbox, lockable Vandal protection Winch drive

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





Limb risers and brush-protection assembly for roll-over protective structure

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



Variable penetration swamp shoe