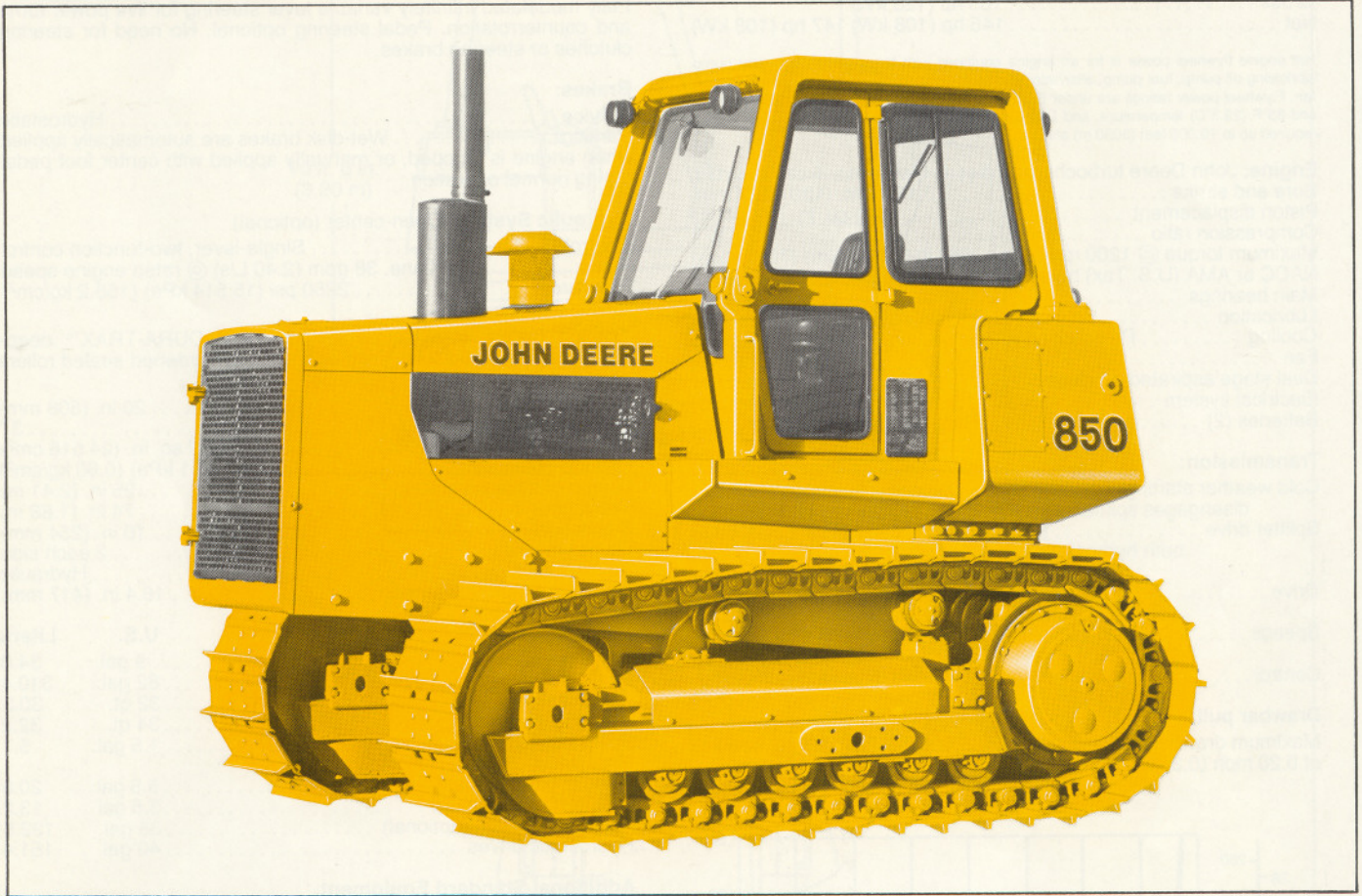
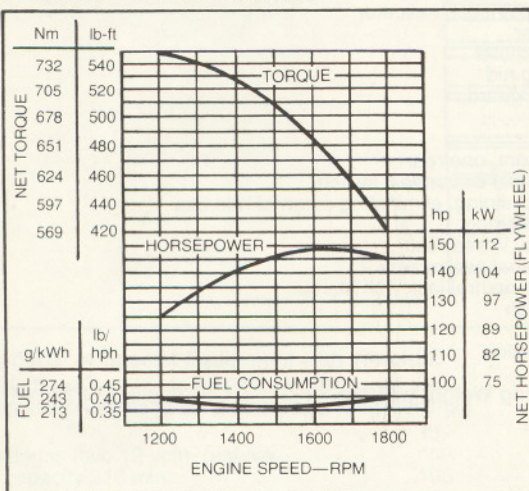




850 GENERAL-PURPOSE CRAWLER



ENGINE PERFORMANCE



FEATURES

- 145 SAE net hp (108 kW)
- Dual-Path automatic hydrostatic drive with infinite 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
- Counterrotating tracks
- No steering clutches or steering brakes
- Automatically engaged parking brake
- DURA-TRAX™ deep-heat-treated sealed track links and through-hardened sealed rollers
- Dual-stage aspirated dry-type air cleaner
- Designed for quietness
- Roll-over protective structure (ROPS)

ADD VERSATILITY WITH:

- Drawbar, fixed or swinging
- 3-point hitch

850 GENERAL-PURPOSE CRAWLER SPECIFICATIONS

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with ICED and SAE Standards. Except where otherwise noted, these specifications are based on a unit equipped with roll-over protective canopy, 20 in. (508 mm) grousers, full fuel tank, 175 lb. (79 kg) operator, and standard equipment.)

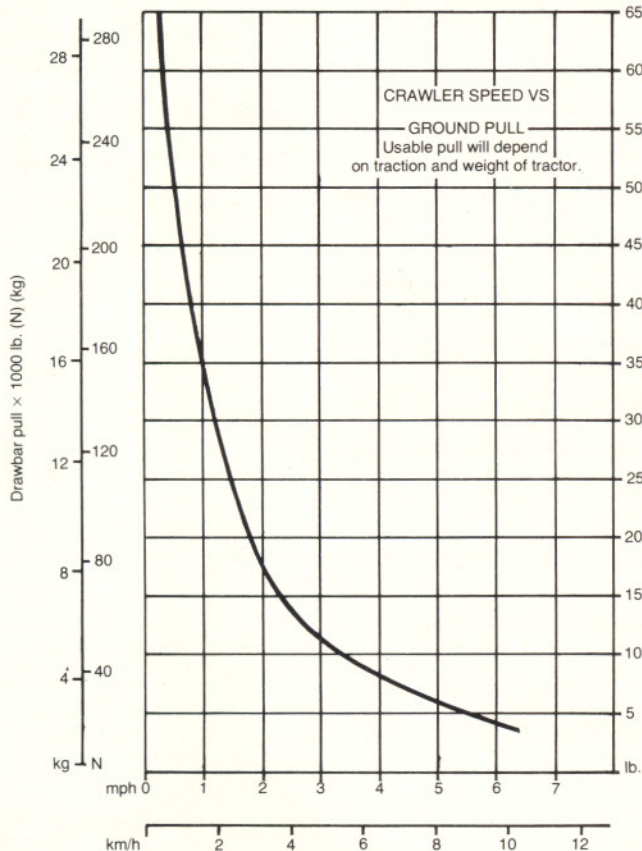
Power (@ 1800 rpm)	SAE	DIN
Gross	165 hp (123 kW)	
Net	145 hp (108 kW)	147 hp (108 kW)

Net engine flywheel power is for an engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, alternator and muffler. The gross engine power is without fan. Flywheel power ratings are under SAE standard conditions of 500-ft. (150 m) altitude and 85°F (29.5°C) temperature, and DIN 6270 conditions (non-corrected). No derating is required up to 10,000 feet (3050 m) altitude.

Engine: John Deere turbocharged diesel, 6-cylinder, 4-stroke cycle
 Bore and stroke 5.12×5 in. (130×127 mm)
 Piston displacement 619 cu. in. (10,145 L)
 Compression ratio 15.2 to 1
 Maximum torque @ 1200 rpm 550 lb-ft (746 Nm) (76.1 kg-m)
 NACC or AMA (U.S. Tax) horsepower 62.9
 Main bearings 7
 Lubrication Pressure system w/full flow filter
 Cooling Pressurized w/thermostat and controlled bypass
 Fan Blower
 Dual stage aspirated air cleaner Dry
 Electrical system 24-volt w/alternator
 Batteries (2) Reserve capacity: 180 minutes

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 Infinite from 0 to 6.5 mph (0 to 10.5 km/h)
 forward or reverse
 Control Single-lever, variable speed, forward and reverse

Drawbar pull:
 Maximum drawbar pull 65,000 lb. (291 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. No need for steering clutches or steering brakes.

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

Hydraulic System: Open-center (optional)
 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)

Tracks: 6-roller track frame w/front guide. DURA-TRAX™ deep-heat-treated sealed track links and through-hardened sealed rollers provide maximum wear resistance.

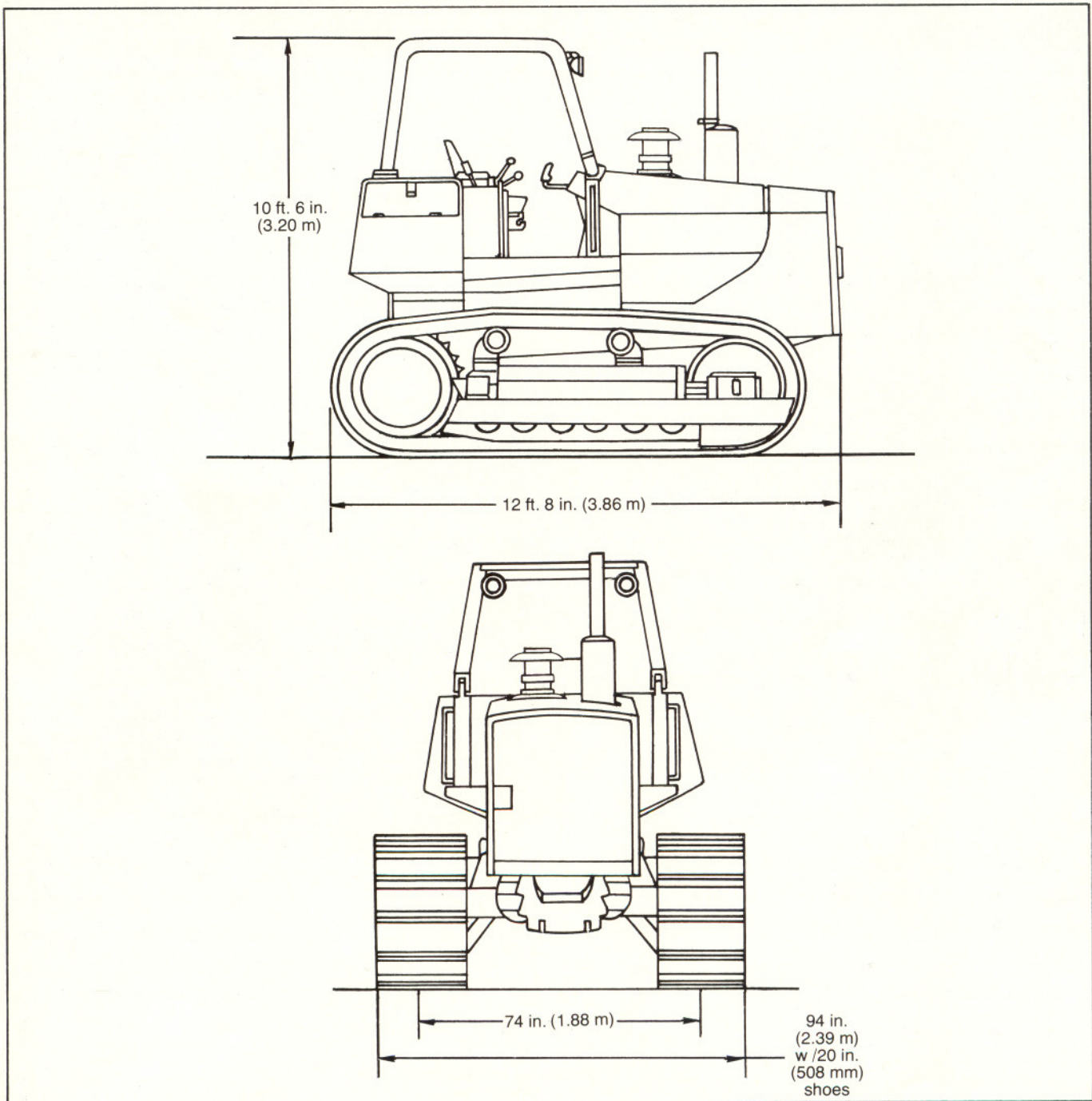
Grouser	20 in. (508 mm)
Track shoes, each side	37
Ground contact area	3800 sq. in. (24 516 cm ²)
Ground pressure	8.58 psi (59.1 kPa) (0.60 kg/cm ²)
Length of track on ground	95 in. (2.41 m)
Track gauge	74 in. (1.88 m)
Oscillation	10 in. (254 mm)
Carrier rollers	2 each side
Adjustment	Hydraulic
Minimum ground clearance	16.4 in. (417 mm)

Capacities:	U.S.	Liters
Cooling system	9 gal.	34.0
Fuel tank	82 gal.	310.4
Crankcase	32 qt.	30.3
Crankcase, including filter	34 qt.	32.2
Splitter drive	1.5 gal.	5.7
Final drive, each		
Inner compartment	5.5 gal.	20.8
Outer compartment	3.5 gal.	13.2
Hydraulic system (optional)	35 gal.	132.5
Hydrostatic drives	40 gal.	151.4

- Additional Standard Equipment:**
- Alternator, enclosed w/16-amp solid-state regulator
 - Air cleaner, dual-stage aspirated dry-type
 - Air cleaner restriction indicator
 - Cigaret lighter
 - Electric hourmeter
 - Ether starting aid
 - Hinged grille guard
 - Horn
 - Key switch
 - Lights, two front, one rear
 - Master electrical disconnect switch
 - Muffler, self-draining, eliminating external rain cap
 - Pushbutton starting
 - ROPS canopy w/seat belt
 - Suspension seat w/armrests
 - Transmission neutral lock with starter safety switch
 - Toolbox
 - Vandal protection

SAE Operating Weight w/ROPS 32,600 lb. (14 790 kg)

850 GENERAL-PURPOSE CRAWLER DIMENSIONS



Optional or Special Equipment with Weights:

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

	lb.	kg		lb.	kg
Batteries (two 12-volt), reserve capacity 310 min.	105	48	Guard, sprocket	107	49
Cab with pressurizer, heater and 50-amp alternator	418	190	Guards, heavy-duty bottom	714	324
Air conditioner	108	49	Guards, regular bottom	589	267
Lexan windows	-83	-38	Guide, rear track	250	113
Windshield washer	3	1	Hydraulics		
Drawbar, fixed	270	122	Hydraulic lines to rear	4	2
Drawbar, swinging	576	261	Hydraulic valve, third-function	10	5
Engine coolant heater	2	1	Hydraulics, single-lever, two-function	315	143
Fan, reversible	40	18	Selector valve and lines to rear	14	6
Fire extinguisher	6	3	Oil sampling test kit		
Front pull hook	33	15	Pedal steering	-12	-5
Grille plate, heavy-duty	124	56	Reverse warning alarm	10	5
Guard, final drive seal	38	17	Rock guard, center-section	250	113
			22-in. (559 mm) grouser shoes	300	136
			24-in. (610 mm) grouser shoes	600	272