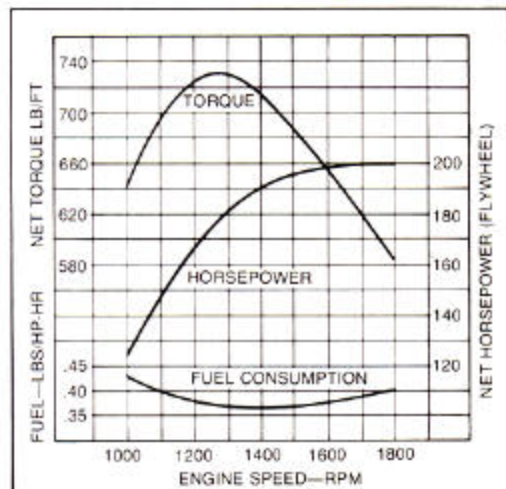




JD855 LOADER



ENGINE PERFORMANCE



FEATURES

- 200 SAE net hp (149 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
- Pedals for independent track control steering
- Counterrotating tracks
- No steering clutches or steering brakes
- Automatically engaged parking brake
- Sealed track rollers and idlers
- Sealed, counterbored track links and bushings
- Sealed loader linkage
- Single-lever loader control w/float position and bucket return-to-dig
- Designed for quietness
- Roll-over protective structure (ROPS)

ADD VERSATILITY WITH:

- Winch
- Ripper
- Multipurpose bucket

JD855 LOADER 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 3 1/4 cu. yd. (2.48 m³) bucket with teeth, roll-over protective canopy, three counterweights, full fuel tank, 175 lb. (79 kg) operator and standard equipment.)

Power (@ 1800 rpm):	SAE	DIN
Gross	220 hp (164 kW)	
Net	200 hp (149 kW)	203 PS

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. altitude and 85 F. temperature, and DIN 6270 conditions (non-corrected). No derating is required up to 7,500 feet (2286 m) altitude.

Engine: John Deere 6-cylinder turbocharged and intercooled diesel, valve-in-head, 4-stroke cycle.

Bore and stroke	5.12×5 in. (130×127 mm)
Piston displacement619 cu. in. (10.145 L)
Compression ratio	15.2 to 1
Maximum torque @ 1300 rpm730 lb-ft (990 Nm) (101 kg-m)
NACC or AMA (U.S. Tax) horsepower	62.9
Lubrication	Pressure system w/full flow filters
Main bearings	7
Cooling	Pressurized w/thermostat and controlled bypass
Fan	Blower
Dual stage aspirated air cleaner	Dry
Electrical system	24 volt w/alternator
Batteries (2 12-volt)	Reserve capacity: 180 minutes each

Transmission:

Cold weather starting	Disconnect clutch completely disengages 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.
Cooling	Oil to air cooler

Steering:

Fully modulated, infinitely variable pedal steering for live power turns and counterrotation. 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

Control	Single-lever bucket control with automatic bucket positioner and float position. Two-function valve.
Pump	Vane, 70 gpm (4.42 L/s) @ rated engine speed
Pressure	2600 psi (17 927 kPa) (183 kg/cm ²) @ rated engine speed
Oil lines	Seamless steel tubing; double-wire-braid hose
Filter	10 micron filter in return line w/bypass
Cooling	Oil to air cooler

Hydraulic Cylinders:	Bore	Stroke
Boom (2)	6.25 in. (159 mm)	38.1 in. (965 mm)
Bucket (2)	5.50 in. (140 mm)	26.1 in. (663 mm)
Cylinder rods	Ground, heat-treated, chrome-plated, polished	
Boom cylinder rods	4.00 in. (102 mm) dia.	
Bucket cylinder rods	3.75 in. (95 mm) dia.	

Tracks (7-roller track frame with front and rear track guards and sprocket guard):

Double semigrouser	18 in. (457 mm)
Track shoes, each side	39
Ground contact area	3996 sq. in. (25 780 cm ²)
Ground pressure	12.4 psi (85.5 kPa) (0.87 kg/cm ²)
Length of track on ground	111 in. (2.82 m)
Track gauge	76 in. (1.93 m)
Carrier rollers	2 each side
Adjustment	Hydraulic
Minimum ground clearance	16.6 in. (422 mm)

Capacities:

	U.S.	Imp.	Liters
Cooling system	10.5 gal.	12.6 gal.	39.8
Fuel tank	106 gal.	88.3 gal.	401.2
Crankcase	32 qt.	26.7 qt.	30.3
Crankcase, including filter	34 qt.	28.3 qt.	32.2
Splitter drive	1.5 gal.	1.25 gal.	5.7
Final drive, each: 1st reduction	6.25 gal.	5.2 gal.	23.6
2nd reduction	3.5 gal.	2.9 gal.	13.2
Loader hydraulic system	40 gal.	33.3 gal.	151.4
Hydrostatic drives	46 gal.	38.3 gal.	174.1

▲Additional Standard Equipment:

Enclosed alternator w/solid-state regulator
Bottom guards
Suspension seat w/armrests
Key switch
Pushbutton starting
Electric hourmeter
Cigaret lighter
Work lights
Vandal protection
Boom safety lock bar
Muffler with collar
Ether starting aid
Master electrical disconnect switch
Toolbox
Transmission neutral lock w/starter safety switch
Horn
Air cleaner restriction indicator
ROPS canopy w/seat belt

JD855 LOADER OPERATING INFORMATION

▲OPERATING INFORMATION	BUCKET		
	General Purpose	General Purpose	Multipurpose
Capacity, heaped, SAE	2¾ cu. yd. (2.10 m³)	3¼ cu. yd. (2.48 m³)	2¾ cu. yd. (2.10 m³)
Capacity, struck, SAE	2.30 cu. yd. (1.76 m³)	2.74 cu. yd. (2.10 m³)	2.07 cu. yd. (1.58 m³)
Bucket width	96.2 in. (2.44 m)	96.2 in. (2.44 m)	96.2 in. (2.44 m)
Bucket weight	3000 lb. (1361 kg)	3200 lb. (1451 kg)	3600 lb. (1633 kg)
SAE breakout force	40,100 lb. (180 kN) (18 189 kg)	35,000 lb. (157 kN) (15 876 kg)	36,900 lb. (165 kN) (16 738 kg)
SAE tipping load (w/drawbar and three counterweights)	35,200 lb. (15 966 kg)	35,000 lb. (15 876 kg)	34,600 lb. (15 695 kg)
Raising time	6.7 sec.	6.7 sec.	6.7 sec.
Dumping time	1.5 sec.	1.5 sec.	1.5 sec.
Lowering time	3.7 sec.	3.7 sec.	3.7 sec.
SAE operating weight w/ROPS canopy	48,400 lb. (21 954 kg)	49,600 lb. (22 499 kg)	50,000 lb. (22 680 kg)

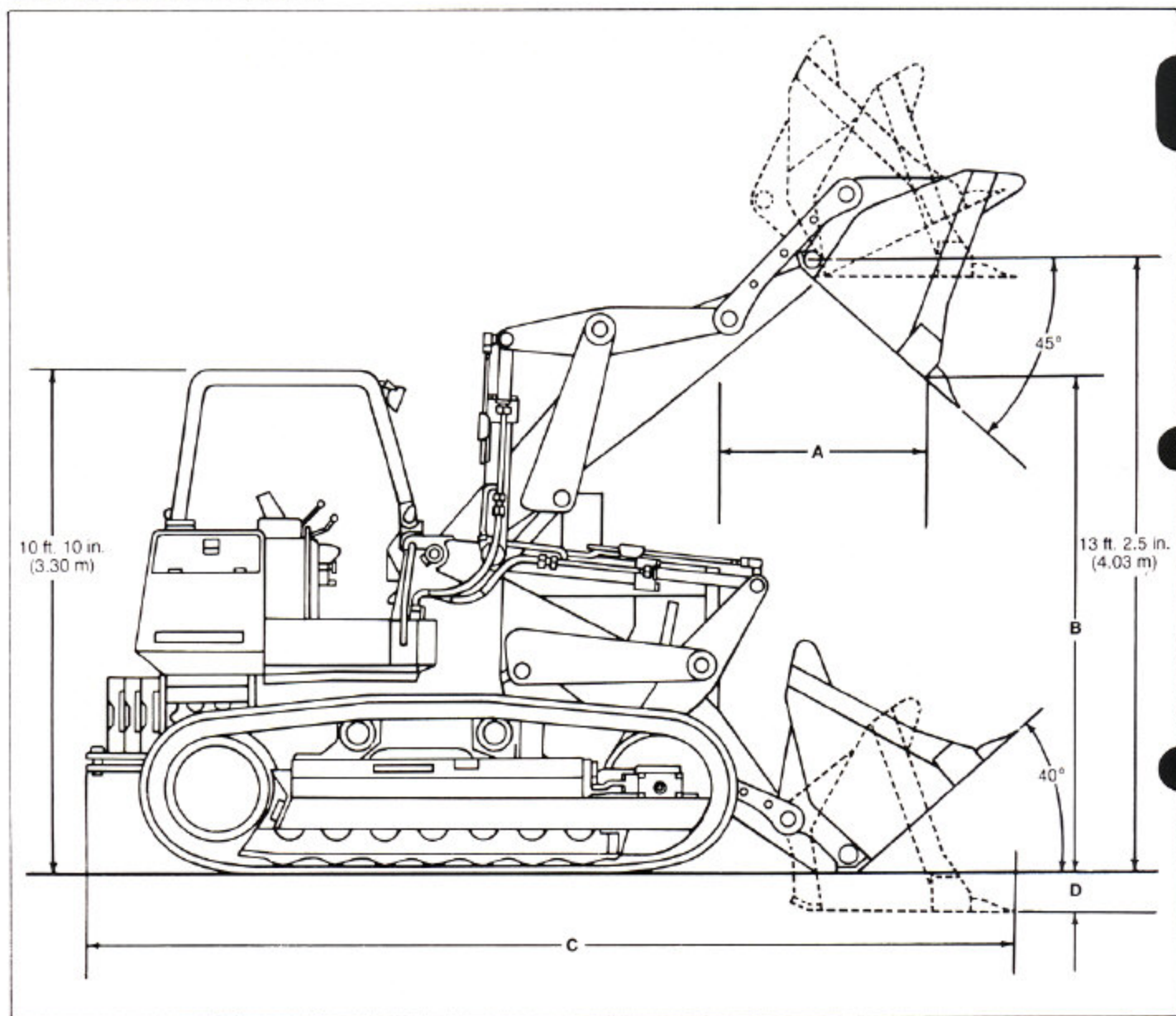
Adjustments to operating weights and tipping loads:		
Add (+) or deduct (-) lb. (kg.) as indicated for loader equipped with:	Loader Operating Weight	Tipping Load
Cab	+800 lb. (363 kg)	+1068 lb. (484 kg)
Bucket teeth	+320 lb. (145 kg)	-350 lb. (159 kg)
Air conditioning	+130 lb. (59 kg)	+80 lb. (36 kg)
Ripper	+3500 lb. (1588 kg)	+7150 lb. (3243 kg)
Counterweight (each)	+ or - 500 lb. (227 kg)	+ or -967 lb. (439 kg)

Special Equipment:

- Oil sampling test kit
- Bucket teeth
- Hydraulics for rear-mounted equipment
- Hydraulics for front-mounted equipment
- Three-spool valve
- Selector valve
- Brush screens
- Fire extinguisher
- Front pull hook
- Cab w/windshield wipers, pressurizer and heater
- Air conditioner
- Windshield washer
- Engine coolant heater
- Backup alarm
- Lexan® windshield w/wiper for ROPS
- Center track guard

▲Indicates change from previous printing.

JD855 LOADER DIMENSIONS



▲BUCKET CAPACITIES	DIMENSIONS			
	A	B	C	D
2¾ cu. yd. (2.10 m ³)	47.68 in. (1.21 m)	10 ft. 6 in. (3.20 m)	19 ft. 7.5 in. (5.98 m)	5 in. (127 mm)
3¼ cu. yd. (2.48 m ³)	51.46 in. (1.31 m)	10 ft. 2 in. (3.10 m)	20 ft. (6.10 m)	5 in. (127 mm)
2¾ cu. yd. (2.10 m ³) Multipurpose	47.02 in. (1.19 m)	10 ft. 1 in. (3.07 m)	19 ft. 10 in. (6.05 m)	9 in. (229 mm)

