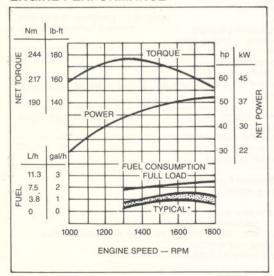


84 LOADER



ENGINE PERFORMANCE



*Depending on operating variables

FEATURES

52 SAE net hp (39 kW)

Four-wheel drive

1.0 cu. yd. (.8 m³) bucket

Torque converter with Power Shift transmission: three speeds forward, one reverse

Power steering; articulated frame

Four-wheel wet-disk brakes and disk parking

Inboard planetary final drives

Single-lever loader control with standard automatic return-to-dig

Roll-over protective structure (ROPS) with canopy. Meets criteria of SAE J394, SAE J1040A, and ISO 3471. Also meets FOPS (falling object protective structure) criteria SAE J231 and ISO 3449

Standard vandal protection

ADD VERSATILITY WITH:

Bucket teeth

Auxiliary cutting edge

Snow removal equipment

84 LOADER 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 machine with all standard equipment, 17.5/65-20, 10 PR, L2 tires, ROPS cab, full fuel tank, and 175-lb. (80 kg) operator.

openions are based on a maximo min an orange equip	zinoni, mon	00 20, 10 111, 22 11
Rated Power @ 1800 rpm: SAI Net	9 kW) 1 kW) cleaner, ex 349 and DIN	70 020, using
Engine: Yanmar 4TN100 Type	211 cu. ii (236 Nm w/25-amp	(100 x 110) 4 n. (3.458 L) n) (24 kg-m) Blower Dry p alternator
Torque Converter: Type Torque multiplication	Si	ngle phase 3.00 to 1
Transmission		Power Shift
Forward Speeds: 1 2 3 Reverse Speeds:	mph 0-5.6 0-9.6 0-17.7	
1	0-7.1	0-11.5
Differentials: Front and rear conventional		
Drive Axles Inboard-mounted plar wheel. Front axle fixed. Rear axle oscillates 16	netary ges degrees	ars to each
Steering	. 12 ft. 6 i 9.65 in 1.18 i	in. (3.82 m) I. (245 mm) In. (30 mm)
Brakes:		
Service Dual hydraulic, 4-when wet disk. Foot-operated by either pedal. Parking 10.9 in. (277 mm) diameter coutput shaft, hand-operated with warning light.	disk on tra	
Hydraulic Systems: Steering and loader functions An eng pump delivers 21.1 gpm (1.33 L/s) at 2500 psi (cm²) and 1800 engine rpm. Loader function setting is 2500 psi (17 238 kPa) (175 kg/cm²). pressure is 1850 psi (12 756 kPa) (130 kg/cm²). Control Single-lever, coptional triple hydraulic valve with separate letworder hydraulic operating cycle times at full the Raise Dump Lowering: float power . Maximum lift capacity with 1.0 cu. yd. (.8 mbucket: Maximum height	17 238 kF elief valv Maximu dual hydraver. hrottle:	Pa) (175 kg/e pressure m steering aulic valve. 5.4 sec 1.0 sec 4.5 sec 3.5 sec. al purpose
Ground level	. 6835 lb	o. (3100 kg)

Hydraulic Cylinders: Boom, two Bucket, one Boom and bucket cylinder	. 3.15 in. (80 mm) . 3.15 in. (80 mm)	22.5 in. (571 18.5 in. (470	mm)
Tires: 17.5/65-20, 10 PR, Tread width Width over tires		61 in. (1550	mm)
Capacities: Cooling system Fuel tank Crankcase Crankcase, including filter Transmission case and fil Front and rear differential Loader hydraulic sump	r ters	21 qt. 15.3 gal. 12 qt. 13 qt. 24 qt. 10 qt.	20 58 11.5 12.5 23 9.5 70

Loader Hydradile Sump
Additional Standard Equipment: Adjustable, cushioned vinyl seat Antifreeze Articulation transport lock Automatic return to dig
Counterweight, rear w/drawbar and service step Differential, conventional Dual hydraulic valve for loader Electrical system, 24-volt
Front and rear fenders Fuel filter
Fuel shut-off, manual Gauges:
Coolant temperature
Electric hourmeter Transmission oil pressure
Sight gauges —
Brake oil
Fuel tank Hydraulic reservoir
Transmission
Hand grips
Horn Kov owitch
Key switch Lights:
Driving
Stop and tail
Indicator lights —
Engine pre-heat Hi-beam
Turn and flashing signals
Instrument panel warning lights —
Alternator Engine oil pressure
Parking brake
Transmission oil temperature
Mirrors, rearview
Muffler Reverse warning alarm
ROPS canopy w/seat belt
Transmission clutch disconnect
Valve stem protectors
Vandal protection package
Optional or Special Equipment:
Auxiliary cutting edges
Bucket teeth

Lights, front and rear work
Rear wiper and washer for ROPS cab
ROPS cab w/heater, dome light, front wiper and washer, floor
mat and sliding rear window
Triple hydraulic valve for loader

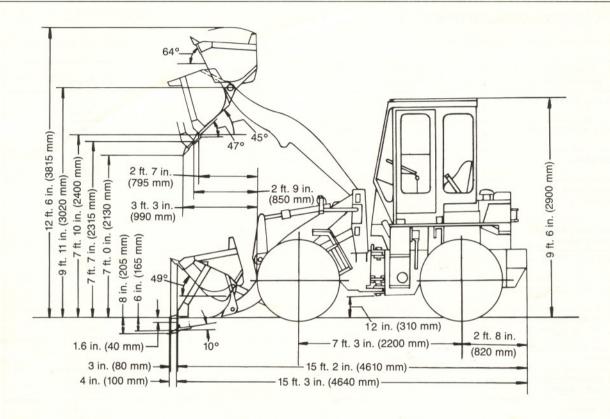
84 LOADER OPERATING INFORMATION

	BUCKET TYPE		
OPERATING	General	Light	Multipurpose
INFORMATION	Purpose	Material	
Capacity, heaped, SAE	1.0 cu. yd.	1.3 cu. yd.	0.78 cu. yd.
	(.8 m³)	(1.0 m³)	(.6 m³)
Capacity, struck, SAE	0.9 cu. yd.	1.17 cu. yd.	0.67 cu. yd.
	(.7 m³)	(.9 m³)	(.51 m³)
Bucket width	81.9 in.	81.9 in.	81.9 in.
	(2.08 m)	(2.08 m)	(2.08 m)
Breakout force, SAE J732C	9040 lb. (40.2 kN) (4100 kg)	7795 lb. (34.7 kN) (3535 kg)	9040 lb. (40.2 kN) (4100 kg)
Tipping load, straight, maximum reach	8930 lb.	8864 lb.	8192 lb.
	(4050 kg)	(4020 kg)	(3715 kg)
Tipping load, 40-deg.	7508 lb.	7453 lb.	6880 lb.
full turn, SAE	(3405 kg)	(3380 kg)	(3120 kg)
Tipping load, 35-deg. turn	7740 lb.	7682 lb.	7100 lb.
	(3510 kg)	(3485 kg)	(3220 kg)
Reach at 45-deg. dump,	39 in.	40 in.	39.2 in.
7 ft. (2.13 m) clearance	(990 mm)	(1015 mm)	(995 mm)
Reach at 45-deg. dump,	31 in.	34 in.	31 in.
full height	(790 mm)	(865 mm)	(790 mm)
Dump clearance at 45-deg.	94.7 in.	92 in.	94.5 in.
dump, full height	(2405 mm)	(2340 mm)	(2400 mm)
Overall length	15 ft. 3 in.	15 ft. 7 in.	15 ft. 3 in.
	(4.65 m)	(4.75 m)	(4.65 m)
Loader clearance circle,	28 ft. 8 in.	28 ft. 10 in.	28 ft. 8 in.
bucket in carry position	(8.74 m)	(8.79 m)	(8.74 m)
Operating weight	11,246 lb.	11,316 lb.	11,742 lb.
	(5100 kg)	(5130 kg)	(5325 kg)

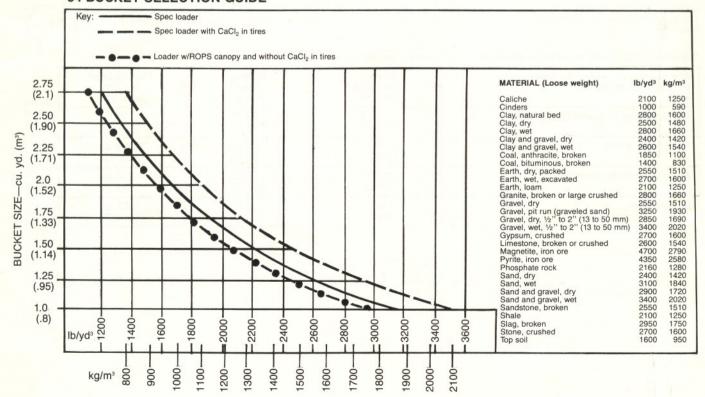
Loader operating information is based on machine with all standard equipment, 17.5/65-20, 10 PR tires with ROPS cab, full fuel tank, 175-lb. (80 kg) operator. Operating information is affected by tire size, ballast and attachments. For selected items, add or subtract the following:

Adjustments to operating weights and tipping loads for 1.0 cu. yd. (.8 m³) bucket

Add (+) or deduct (-) lb. (kg) as indicated for loaders with:	Loader	Tipping	Tipping Load
	Operating	Load	40° Full
	Weight	Straight	Turn, SAE
ROPS canopy in lieu of ROPS cab	– 512 lb.	– 529 lb.	- 452 lb.
	(232 kg)	(240 kg)	(205 kg)
17.5/65-20, 10 PR, L2 tires with CaCl ₂	+ 750 lb.	+ 1050 lb.	+ 895 lb.
	(340 kg)	(475 kg)	(405 kg)
Auxiliary cutting edges	+ 125 lb.	– 155 lb.	- 130 lb.
	(57 kg)	(70 kg)	(59 kg)
Bucket teeth	+ 51 lb.	– 62 lb.	– 53 lb.
	(23 kg)	(28 kg)	(24 kg)



84 BUCKET SELECTION GUIDE*



^{*}This guide, representing buckets not necessarily manufactured by Deere will help you in selecting proper bucket size for material density and loader configurations. However, specific bucket size should only be determined after adding or subtracting all the tipping load changes due to specifications.