

L O A D E R

244H





Planetary final drives are mounted inboard. Larger, more durable components can be used in their design and manufacture, since gear size isn't limited by wheel hub diameter. The final drives evenly

distribute shock loads over three gears, and run in a cooling oil bath for long life and trouble-free service. The rear axle oscillates 22 degrees to give you a firm footing when going over rough terrain.



One low-effort lever controls all loader functions, with a detent position for boom float and another for the return-to-dig function. The auxiliary lever located behind the main lever is included for adding hydraulic attachments.



The electronic dash monitor keeps tabs on vital machine functions, with warnings you can both hear and see.

The isolation-mounted cab includes a 16,000-Btu/hr. (4.7 kW) heater, slip-resistant steps, and ergonomically located handholds.

The 244H's Z-bar linkage design gives you higher breakout force, faster dump cycles, and better retention of material in the bucket.



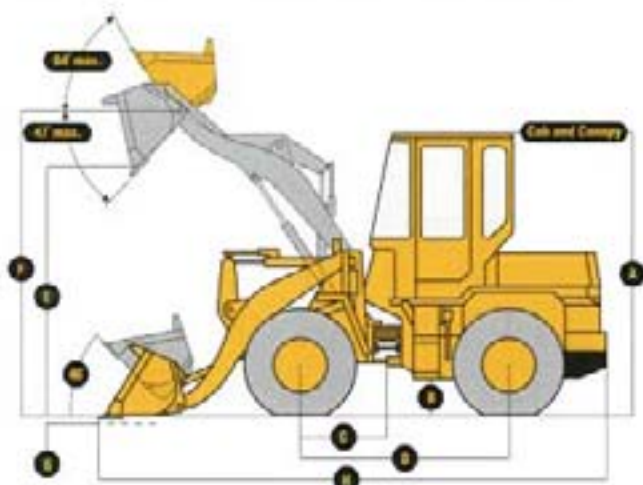
ENGINE		244H
Type	Yanmar 4TNE98 - Naturally Aspirated Direct Injection Diesel, (meets EPA emissions regulations)	
Rated power	58 SAE gross hp (43 kW) 55 SAE net hp (41 kW) @ 2,200 rpm	
Cylinders	4	
Displacement	202 cu. in. (3,318 L)	
Maximum net torque	166 lb.-ft. (225 Nm) @ 1,300 rpm	
Lubrication	pressure system with full-flow spin-on filter	
Fuel consumption, typical	1.0 to 2.0 gal./hr. (3.8 to 7.6 L/h)	
Cooling fan	blower	
Electrical system	24 volt with 35-amp alternator	
Batteries (two 12 volt)	reserve capacity: 332 min., 320 CCA	
Air cleaner	dual safety element dry type; restriction indicator for service	
TRANSMISSION		
Type	hydrostatic (HST) with infinitely-variable speed control; two-speed power-shift transmission coupled with the HST to provide full range of operating speeds and direction reversal	
Controls	low-effort electric shift, single lever for direction and speed changes; HST inching pedal	
Travel speeds	<i>Forward and Reverse</i>	
Gear 1	6.0 mph (9.6 km/h)	
Gear 2	20.0 mph (32.2 km/h)	
AXLES/BRAKES		
Final drives	heavy-duty planetary, mounted inboard	
Differentials	conventional front and rear	
Rear axle oscillation	22 degrees, stop to stop	
Maximum rise and fall, single wheel	11.2 in. (284 mm)	
Brakes (conform to SAE J1473, ISO3450)		
Service brakes	inboard-mounted hydraulic wet disc, bathed in cooling oil, long life self-adjusting	
Parking brake	automatically spring applied, hydraulically released, disc and caliper type, attached to transmission output shaft	
HYDRAULIC SYSTEM/STEERING		
Pump (loader and steering)	gear-type, open-center system	
Maximum flow	21.2 gpm (80 L/min.) @ 2,990 psi (20 615 kPa) and @ 2,200 engine rpm	
- Pressure	loader relief 2,990 psi (20 615 kPa) steering relief 1,990 psi (13 720 kPa)	
Loader controls	two-function valve with single lever and control lever lockout optional three-function valve with auxiliary lever	
Hydraulic cycle times		
Raise	4.3 sec.	
Dump	0.8 sec.	
Lower	3.8 sec. (float down) / 2.9 sec. (power down)	
Maximum lift capacity	with 1.3 cu. yd. (1.0 m ³) light-material bucket	
Lift at ground level	9,560 lb. (4336 kg)	
Lift at maximum height	4,409 lb. (2000 kg)	
Steering (conforms to SAE J1511)		
Type	power, fully hydraulic	
Relief valve setting	1,990 psi (13 720 kPa)	
Articulation angle	80-degree arc (40 degrees each direction)	
Turning radius (measured to center-line of outside tire)	12 ft. 5 in. (3.79 m)	
TIRES		
Standard	17.5/65-20, 10 PR L2	
Tread width	58 in. (1470 mm)	
Width over tires	76 in. (1930 mm)	
CAPACITIES (U.S.)		
Fuel tank with ground level fueling	18.5 gal. (70.0 L)	
Cooling system	11.5 qt. (10.9 L)	
Engine lubrication, including full-flow spin-on filter	12.2 qt. (11.5 L)	
Power shift transmission, including vertical cartridge filter	10.6 qt. (10.0 L)	
Front or rear differential (each)	10.0 qt. (9.5 L)	
Loader-hydrostatic reservoir	19.3 gal. (73.0 L)	
Brake oil reservoir	0.3 qt. (0.3 L)	

DIMENSIONS WITH BUCKET

244H

- A** Height to top of cab and canopy.....9 ft. 10 in. (2995 mm)
- B** Ground clearance.....13 in. (330 mm)
- C** Length from centerline of front axle.....43.3 in. (1100 mm)
- D** Wheelbase.....86.6 in. (2200 mm)
- E** Dump height.....▲
- F** Height to hinge pin, fully raised.....10 ft. 4 in. (3160 mm)
- G** Digging depth.....1.8 in. (45 mm)
- H** Overall length.....▲

▲ See Bucket Information below.



BUCKET INFORMATION (PIN-ON)

Bucket Type/Size	Light Material	General Purpose
Capacity, heaped SAE.....	1.3 cu. yd. (1.0 m ³)	1.0 cu. yd. (0.8 m ³)
Capacity, struck SAE.....	1.2 cu. yd. (0.9 m ³)	0.9 cu. yd. (0.7 m ³)
Bucket width.....	78.4 in. (1.99 m)	78.4 in. (1.99 m)
Breakout force, SAE J732C.....	8,666 lb. (38.5 kN)	10,143 lb. (45.1 kN)
Tipping load, straight.....	7,432 lb. (3371 kg)	7,474 lb. (3390 kg)
Tipping load, 35-degree turn, SAE.....	6,636 lb. (3010 kg)	6,680 lb. (3030 kg)
Tipping load, 40-degree full turn, SAE.....	6,429 lb. (2916 kg)	6,470 lb. (2935 kg)
Reach, 45-degree dump, 7-ft. (2.13 m) clearance.....	47.8 in. (1215 mm)	46.7 in. (1185 mm)
Reach, 45-degree dump, full height.....	36.7 in. (933 mm)	33.3 in. (845 mm)
▲ Dump clearance, 45 degree, full height.....	97.2 in. (2470 mm)	100.6 in. (2555 mm)
▲ Overall length.....	16 ft. 8 in. (5.07 m)	16 ft. 3 in. (4.95 m)
Loader clearance circle, bucket in carry position.....	29 ft. 4 in. (8.90 m)	29 ft. 2 in. (8.90 m)
Operating weight.....	11,400 lb. (5171 kg)	11,370 lb. (5157 kg)

Loader operating information is based on machine with all standard equipment, 17.5/65-20, 10 PR L2 (no fluid) tires, ROPS cab, 175-lb. (79 kg) operator, and full fuel tank. This information is affected by tire size, ballast, and different attachments.

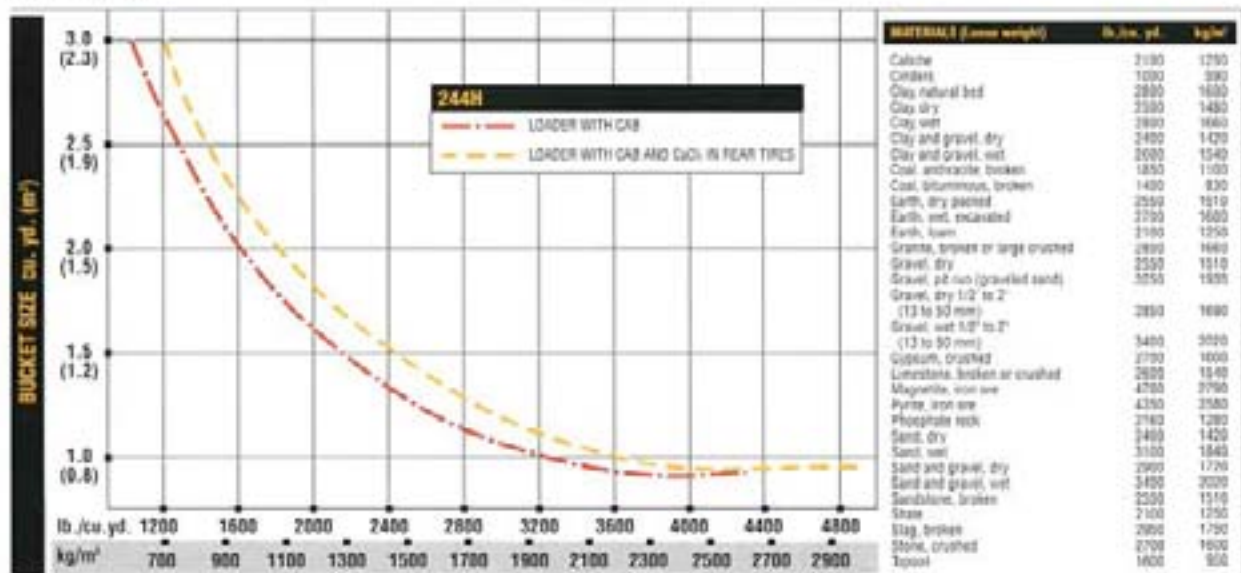
ADJUSTMENTS TO OPERATING WEIGHTS FOR PIN-ON BUCKETS

Adjustments to operating weights and tipping loads for 1.3 cu. yd. (1.0 m³) light-material bucket

Add (+) or deduct (-) lb. (kg) as indicated

	Operating Weight	Tipping Load, Straight	Tipping Load, 35-Degree Full Turn	Tipping Load, 40-Degree Full Turn
for loaders with Bolt-on cutting edge and skid shoes.....	+ 143 lb. (+ 65 kg)	- 176 lb. (- 80 kg)	- 154 lb. (- 70 kg)	- 148 lb. (- 67 kg)
Bolt-on bucket teeth.....	+ 100 lb. (+ 45 kg)	- 121 lb. (- 55 kg)	- 106 lb. (- 48 kg)	- 103 lb. (- 47 kg)
17.5/65-20, 10 PR L2 tires with CaCl ₂	+ 750 lb. (+ 340 kg)	+ 922 lb. (+ 418 kg)	+ 835 lb. (+ 379 kg)	+ 805 lb. (+ 365 kg)

BUCKET SELECTION GUIDE *



*This guide, representing bucket sizes not necessarily manufactured by Deere, will help in selecting the proper bucket size for material density and loader configuration. Optimum bucket size is determined after adding or subtracting all the tipping load changes due to optional equipment.



Visibility on the 244H is second to none. You'll be amazed that a loader this compact can give you such a clear, unobstructed view to the bucket, to either side, or out the back.



The hydrostatic drive is coupled with a two-speed power shift transmission. One convenient lever, to the left of the steering wheel, lets you easily change direction and shift gears.

Hydrostatic drive provides infinitely variable speed control, while maintaining the engine rpm needed for peak hydraulic response from attachments such as brooms and sweepers.

High-torque steering cylinder geometry allows full power steering at all speeds through the entire 80-degree steering arc.

Dynamic braking brings the 244H to a full stop as soon as the operator's foot is taken off the accelerator.



This full-width, tilt-up hood gives you easy access to the engine compartment for daily servicing. Grease fittings are easy to get to.



Servicing is easy on the 244H. The sight glass (above) provides a quick check of the hydraulic fluid level.

Headlights and turn signals are well placed, and well protected by heavy-duty sheet metal cowls. Halogen lamps keep you productive working at night or indoors.



Remove the front shield (above) to reach the main hydraulic hose bundle. The wide-open articulation area (top photo) gives you easy access to steering cylinder and other components.

