

## ENGINE

A 211 cu. in. (3.457 L) direct injection diesel engine powers the 244E. This naturally aspirated engine generates 55 hp (41 kW) at 2200 rpm and delivers an exceptional 39 percent torque rise for superior lugging ability and quick recovery.

**Engine:** Yanmar 4TN100

Rated power @ 2200 rpm	55 net hp (41 kW)
	59 SAE gross hp (44 kW)
Cylinders	4
Displacement	211 cu. in. (3.457 L)
Maximum net torque at 1300 rpm	182 lb-ft (247 Nm)
Air cleaner	dual stage dry type with restriction indicator
Electrical system	24 volt with 25-amp alternator
Battery (two 12 volt)	
25 amps at 80°F (27°C)	reserve capacity 166 min. each
BCI group 27 cold cranking capacity	
at 0°F (-18°C)	320 amps

## TRANSMISSION

Features a hydrostatic (HST) transmission with variable speed drive. A two-speed (Hi-Lo) power shift transmission is coupled with the HST to provide a full range of operating speeds up to 20.0 mph (32.2 km/h).

### TRAVEL SPEEDS

Gear	Forward and Reverse	
	mph	(km/h)
Low	6.2	10.0
High	20.0	32.2

## FINAL DRIVES

Heavy-duty, planetary final drive gears are mounted inboard where size is not restricted by wheel diameter. They distribute axle shock loads evenly over three gears that run in a cooling oil bath for long life and trouble-free service. Front axles are fixed to the frame and rear axles oscillate 11 degrees.

## BRAKES

Hydraulic wet disk brakes are mounted inboard and run in a cooling oil bath. They're self-adjusting, self-equalizing, and require no periodic service. The parking brake mounted on the transmission output shaft is hand-operated and has a warning light. When applied, the transmission is automatically disconnected.

## STEERING

Smooth, low-effort steering is provided. High torque steering cylinder geometry and large cylinders permit full power steering at all speeds through the 80-degree steering arc (40 degrees each direction).

Turning radius	12 ft. 5 in. (3.79 m)
(measured to centerline of outside tire)	
Rear axle oscillation	11 degrees
Vertical travel at center of tire	5.6 in. (142 mm)

## HYDRAULICS

### Loader functions and steering:

A gear pump delivers 20.6 gpm (78 L/min) at 2990 psi (20 784 kPa) and 2200 engine rpm. The loader function relief valve pressure setting is 2990 psi (20 784 kPa). The maximum steering pressure is 1990 psi (13 832 kPa).

### Controls:

Dual hydraulic valves with single lever. An optional triple valve is available for forks and other attachments.

### Loader operating cycle times at full throttle with rated load in the bucket:

Raise	4.7 sec.
Dump	0.9 sec.
Lower	3.8 sec. (float)
	3.0 sec. (power)

### Maximum lift capacity with 1.3 cu. yd. (1.0 m<sup>3</sup>) bucket:

Maximum height	7130 lb. (3235 kg)
Ground level	9560 lb. (4336 kg)

## TIRES

17.5/65-20, 10 PR L2

## CAPACITIES

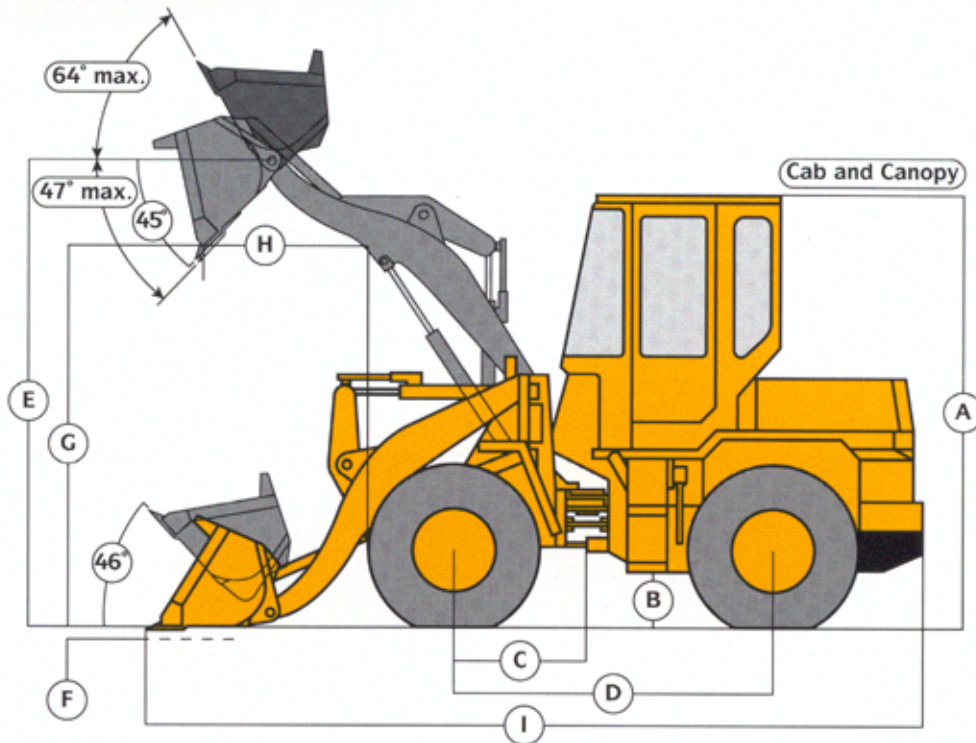
	U.S.	
Fuel tank	18.5 gal.	(70 L)
Cooling system	12.5 qt.	(13.2 L)
Crankcase	12.0 qt.	(12.7 L)
Transmission case and filters	9.5 qt.	(10 L)
Front differential	9.0 qt.	(9.5 L)
Rear differential	9.0 qt.	(9.5 L)
Loader hydrostatic transmission sump	15.9 gal.	(60 L)
Brake oil sump	0.70 qt.	(0.75 L)

## OPERATING WEIGHT

See 244E Loader Operating Information and various charts.



# DIMENSIONS



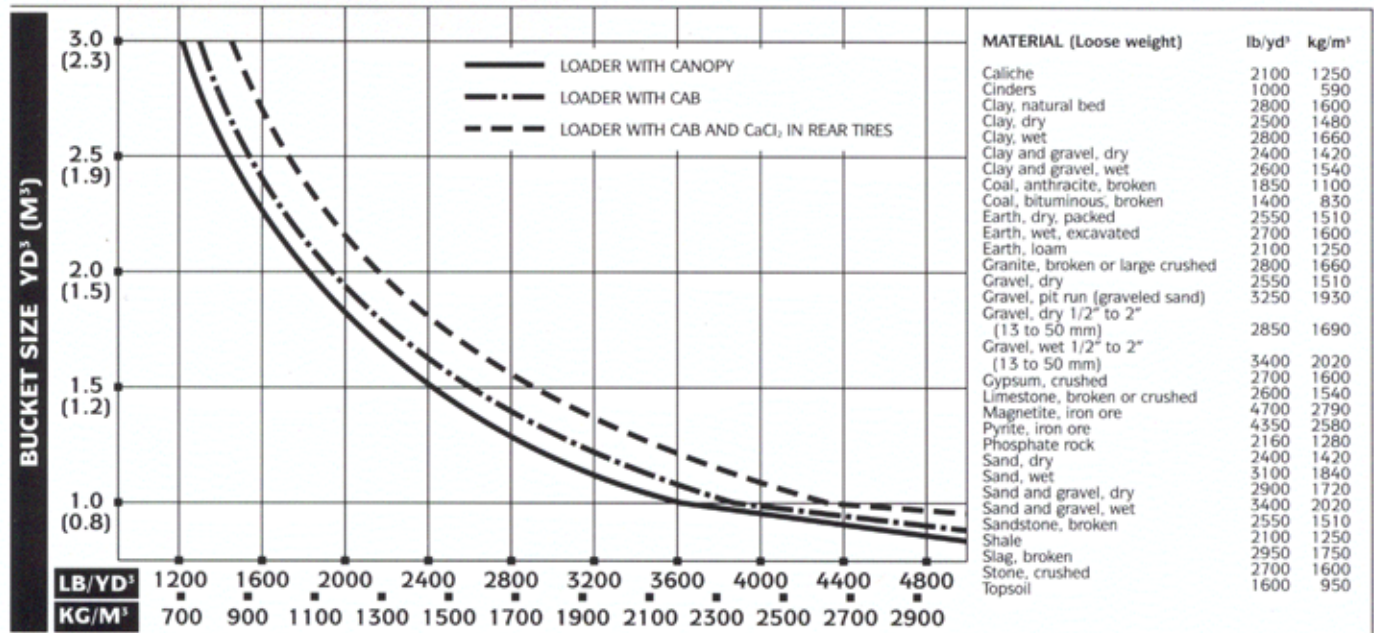
**Key:**

A	Height to top of cab and canopy	9 ft. 7 in. (2935 mm)
B	Ground clearance	13 in. (330 mm)
C	Length from centerline to front axle	43.3 in. (1100 mm)
D	Wheelbase	86.6 in. (2200 mm)
E	Height to hinge pin - fully raised	10 ft. 4 in. (3160 mm)
F	Digging depth	1 in. (27 mm)
G	Dump height	
H	Reach bucket fully raised	} See Operating Information
I	Overall length	

**TIRES**

	<b>17.5/65-20</b>
Tread width	58 in. (1470 mm)
Width over tires	76 in. (1930 mm)

# 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.

## 244E LOADER OPERATING INFORMATION

OPERATING INFORMATION	Bucket Type/Size	General Purpose	Light Material	Multipurpose
Capacity, heaped, SAE	cu. yd. m <sup>3</sup>	1 0.8	1.3 1	0.78 0.6
Capacity, struck, SAE	cu. yd. m <sup>3</sup>	0.9 0.7	1.17 0.9	0.67 0.51
Bucket width	in. m	78.4 1.99	78.4 1.99	78.4 1.99
Breakout force, SAE J732C	lb. kN	10,143 45.1	8666 38.5	10,143 45.1
Tipping load, straight	lb. kg	8930 4050	8864 4020	8192 3715
Tipping load, 35-deg. turn	lb. kg	7740 3510	7684 3485	7100 3220
Tipping load, full turn, SAE	lb. kg	7497 3400	7453 3380	6880 3120
Reach, 45 deg. dump, 7 ft. (2.13 m) clearance	in. mm	46.7 1185	47.8 1215	46.9 1190
Reach, 45 deg. dump, full height	in. mm	33.3 845	36.6 930	33.3 845
Dump clearance, 45 deg. dump, full height	in. mm	100.6 2555	97.2 2470	100.8 2560
Overall length	ft.-in. m	16-3 4.95	17-3 5.25	16-3 4.95
Loader clearance circle, bucket in carry position	ft.-in. m	29-2 8.90	29-2 8.90	29-2 8.90
Operating weight	lb. kg	11,746 5327	11,775 5340	12,205 5535

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. 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 1.3 cu. yd. (1.0 m<sup>3</sup>) bucket.

#### ADJUSTMENTS TO OPERATING WEIGHTS

Add (+) or deduct (-) lb. (kg) as indicated for loaders with:		Operating Weight	Tipping Load Straight	Tipping Load 35-Deg. Turn	Tipping Load Full Turn, SAE
Adding BOC and skid shoes	lb.	143	-176	-154	-148
	kg	65	-80	-70	-67
Adding bolt-on bucket teeth	lb.	100	-121	-106	-103
	kg	45	-55	-48	-46.5
ROPS canopy in lieu of ROPS cab	lb.	-523	-540	-463	-452
	kg	-237	-245	-210	-205
17.5/65-20, 10 PR L2 tires with CaCl <sub>2</sub>	lb.	750	1047	926	893
	kg	340	475	420	405