



## ENGINE

Model	Yanmar 4TNV98C
Emissions Certification	Tier 4 Final
Fuel	Diesel
Cylinders	4
Displacement	203 in <sup>3</sup> (3 319 cc)
Fuel injection	Electronic common rail
Gross horsepower – SAE J1995 @ 2200 RPM:	64.7 hp (48.3 kW)
Net horsepower – SAE J1349 @ 2200 RPM:	63 hp (47 kW)
Maximum Engine Torque @ 1560 RPM:	173.6 lb ft (235.4 Nm)
Cooling	Water-cooled

## DRIVETRAIN

Travel speeds:	
1st	1.4 mph (2.2 kph)
2nd	2.5 mph (4.0 kph)
Maximum traction force	11,680 lb (5 300 kg)
Gradeability	35° (70%)
Ground pressure	5.12 psi (0.36 kgf/cm <sup>2</sup> )

## ELECTRICAL

Voltage	12 Volts
Alternator rating	80 amp
Battery	1 x 12 V x 100 Ah 850 CCA

## OPERATOR ENVIRONMENT

Enclosed cab w/heat and air conditioning; ISO 6396:2008 sound pressure level LpA=77dB (A); Pilot operated hand controls and foot pedals; Adjustable seat w/seat belt and seat heater; Arm rests; 12V socket; 5.7 in color LCD display; cup holder; Cell phone holder; Bluetooth radio with USB input, 2 speakers and remote control.

### Display includes:

Hydraulic oil temp warning lamp; Air cleaner warning lamp; Engine stop warning lamp; Check engine warning lamp; Water in fuel warning lamp; Battery charging warning lamp; Emergency warning lamp; Engine coolant temp warning lamp; Engine oil pressure warning lamp; DPF regeneration inhibit warning lamp; DPF regeneration acknowledge warning lamp; DPF warning lamp; High Exhaust Temperature warning lamp; Low fuel level warning lamp; Engine coolant temperature gauge; Hydraulic oil temperature gauge; Fuel gauge; Engine RPM and Hour meter.

## OPERATING WEIGHT

Cab operating weight:	
Short arm	12,940 lb (5 870 kg)
Long arm w/additional counterweight	13,430 lb (6 090 kg)

NOTE: w/rubber tracks/no quick coupler/bucket/fluids/full of fuel/165 lb operator.

## HYDRAULICS

Main pumps:	Variable displacement tandem axial piston pump
Max rated flow:	2 x 14.5 gpm (2 x 55 L/min)

### Auxiliary flow:

Hammer Circuit 1-way:	
Flow	17.2 gpm (65 L/min)
Pressure	3,191 psi (220 bar)
1st Auxiliary 2-way Circuit:	
Flow	17.2 gpm (65 L/min)
Pressure	3,191 psi (220 bar)
2nd Auxiliary 2-way Circuit:	
Flow	8.7 gpm (33 L/min)
Pressure	2,321 psi (160 bar)

### System relief pressure:

Standard	3,130 psi (220 bar)
Overload relief valve	3,410 psi (240 bar)

### Pilot control hydraulic system:

Pump	Gear pump
Maximum capacity	2.4 gpm (9 L/min)

### Control valves:

Pilot control for left/right track travel, boom, arm, bucket and swing  
Manual control for breaker and backfill blade

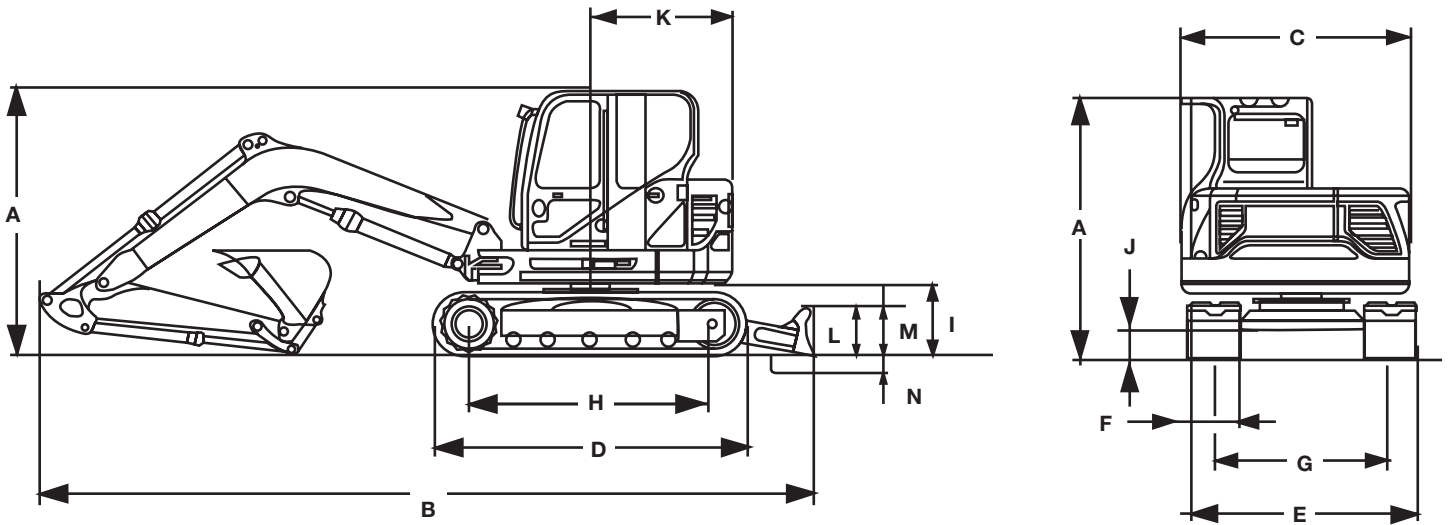
Swing Motor:	Fixed displacement axial piston motor Automatic spring applied hydraulic released brake
Travel Motor:	Variable displacement axial piston 2-stage planetary Automatic spring applied hydraulic released brake

## SERVICE CAPACITIES

Fuel tank	21.7 gal (82 L)
Hydraulic tank:	
Refill capacity	15.9 gal (60 L)
Total system	29.1 gal (110 L)
Engine oil w/filter change	3.1 gal (11.6 L)
Radiator	2.9 gal (11 L)

## OTHER SPECIFICATIONS

Swing speed	0 – 8.8 RPM
Undercarriage:	
Track rollers	1 upper/5 lower each
Boom:	
Swing	70° left/50° right
Length	9 ft 6 in (2.9 m)
Arm:	
Standard length	4 ft 10 in (1.48 m)
Long arm length	6 ft 3 in (1.9 m)



Line drawings are for illustrative purpose only and may not be exact representation of unit.

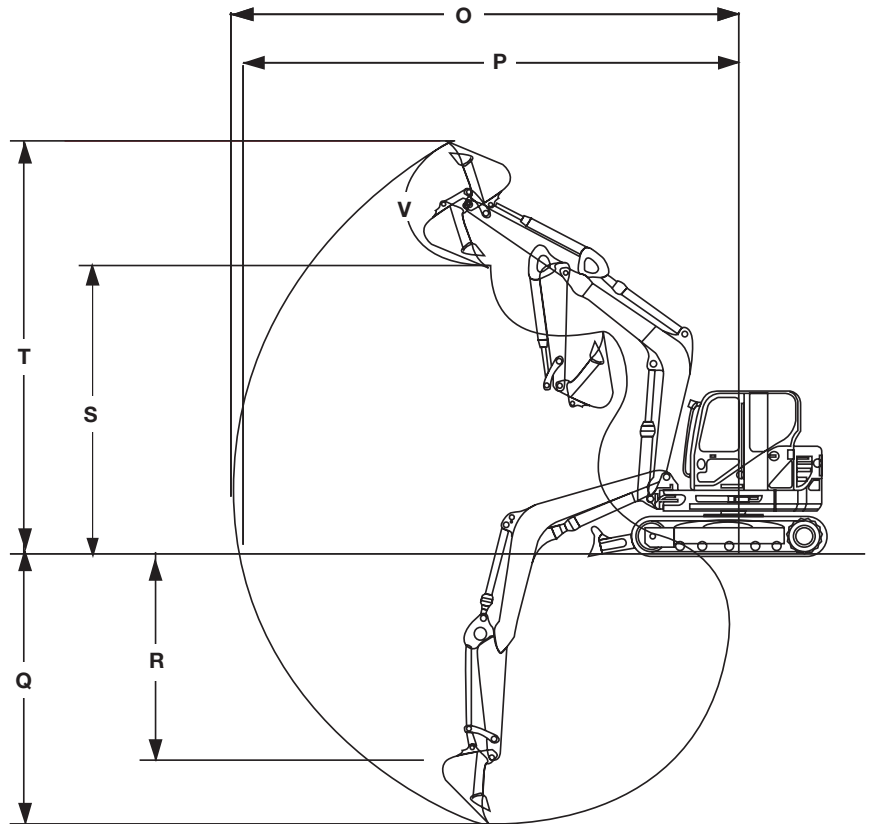
### DIMENSIONS

#### 4 ft 10 in (1.48 m) Arm

A. Overall height	8 ft 4 in (2 550 mm)
B. Overall transport length	18 ft 3 in (5 600 mm)
C. Width of upper structure	6 ft 4 in (1 940 mm)
D. Track overall length	8 ft 4 in (2 550 mm)
E. Track overall width	6 ft 6 in (1 990 mm)
F. Track shoe width	15 in (380 mm)
G. Track gauge	5 ft 3 in (1 600 mm)
H. Center to center - idler to sprocket	6 ft 6 in (1 990 mm)
I. Upper structure ground clearance	2 ft 2 in (660 mm)
J. Minimum ground clearance	1 ft 3 in (380 mm)
K. Tail swing radius:	
Standard counterweight	3 ft 7 in (1 080 mm)
Additional counterweight	3 ft 9 in (1 138 mm)
Boom swing	70° left/50° right
Tail swing overhang:	
Standard counterweight	3 in (85 mm)
Additional counterweight	6 in (143 mm)

### BLADE SPECS

L. Backfill blade height	1 ft 2 in (350 mm)
M. Backfill blade rise above ground	8 in (200 mm)
N. Backfill blade dig depth	2 ft 4 in (700 mm)
Backfill blade width	6 ft 7 in (2 010 mm)



### PERFORMANCE SPECS

#### 4 ft 10 in (1.48 m) Arm

#### 6 ft 3 in (1.9 m) Arm

O. Maximum dig radius	20 ft 2 in (6 150 mm)	21 ft 3 in (6 480 mm)
P. Dig radius at groundline	19 ft 9 in (6 010 mm)	20 ft 10 in (6 350 mm)
Q. Maximum dig depth	11 ft 9 in (3 570 mm)	13 ft 1 in (3 990 mm)
R. Vertical straight wall dig depth	10 ft 0 in (3 040 mm)	11 ft 0 in (3 360 mm)
S. Dump height	12 ft 11 in (3 930 mm)	13 ft 5 in (4 100 mm)
T. Overall reach height	18 ft 8 in (5 680 mm)	19 ft 2 in (5 850 mm)
U. Bucket rotation	180°	180°
Arm digging force - ISO	5,950 lbf (2 700 kgf/26.5 kN)	5,035 lbf (2 280 kgf/22.4 kN)
Bucket digging force - ISO	9,190 lbf (4 170 kgf/40.9 kN)	9,190 lbf (4 170 kgf/40.9 kN)

## LIFT CAPACITIES

**9 ft 6 in (2.9 m) Boom, 4 ft 10 in (1.48 m) Arm, Dozer Blade Down** Cab unit equipped with 0.18 m<sup>3</sup> (SAE heaped) bucket, 15 in (380 mm) rubber track and 1,036 lb (470 kg) counterweight.

Load/Lift Point Height	LOAD RADIUS								MAXIMUM REACH			
	7 ft (2.0 m)		10 ft (3.0 m)		13 ft (4.0 m)		16 ft (5.0 m)		REACH	CAPACITY		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE		@	END	SIDE
+13 ft (4.0 m)					2,460 lb* (1 120 kg)*	1,990 lb (900 kg)				13 ft 10 in (4.22 m)	1,960 lb* (890 kg)*	1,780 lb (810 kg)
+10 ft (3.0 m)					2,590 lb* (1 180 kg)*	1,950 lb (880 kg)				15 ft 11 in (4.86 m)	1,880 lb* (850 kg)*	1,330 lb (600 kg)
+7 ft (2.0 m)			4,200 lb* (1 900 kg)*	2,990 lb (1 360 kg)	3,150 lb* (1 430 kg)*	1,830 lb (830 kg)	2,740 lb* (1 240 kg)*	1,220 lb (550 kg)		17 ft 0 in (5.18 m)	1,960 lb* (890 kg)*	1,130 lb (510 kg)
+3 ft (1.0 m)			5,880 lb* (2 670 kg)*	2,680 lb (1 220 kg)	3,810 lb* (1 730 kg)*	1,700 lb (770 kg)	2,990 lb* (1 350 kg)*	1,160 lb (530 kg)		17 ft 3 in (5.25 m)	2,210 lb* (1 000 kg)*	1,060 lb (480 kg)
Groundline	3,610 lb* (1 640 kg)*	3,610 lb* (1 640 kg)*	6,560 lb* (2 970 kg)*	2,540 lb (1 150 kg)	4,230 lb* (1 920 kg)*	1,610 lb (730 kg)	3,110 lb* (1 410 kg)*	1,120 lb (510 kg)		16 ft 8 in (5.09 m)	2,700 lb* (1 230 kg)*	1,090 lb (490 kg)
-3 ft (-1.0 m)	6,420 lb* (2 910 kg)*	5,250 lb (2 380 kg)	6,290 lb* (2 850 kg)*	2,510 lb (1 140 kg)	4,160 lb* (1 890 kg)*	1,580 lb (720 kg)				15 ft 3 in (4.65 m)	3,260 lb* (1 480 kg)*	1,250 lb (570 kg)
-7 ft (-2.0 m)	8,530 lb* (3 870 kg)*	5,380 lb (2 440 kg)	5,110 lb* (2 320 kg)*	2,570 lb (1 170 kg)						12 ft 7 in (3.83 m)	3,510 lb* (1 590 kg)*	1,740 lb (790 kg)

NOTE: Lifting capacity are based on ISO 10567.

Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

The lift point is a hook located on the back of the bucket.

\*Indicates load limited by hydraulic capacity.

**9 ft 6 in (2.9 m) Boom, 6 ft 3 in (1.9 m) Arm, Dozer Blade Down** Cab unit equipped with 0.18 m<sup>3</sup> (SAE heaped) bucket, 15 in (380 mm) rubber track and 1,477 lb (670 kg) counterweight.

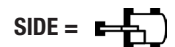
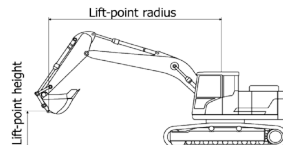
Load/Lift Point Height	LOAD RADIUS								MAXIMUM REACH			
	7 ft (2.0 m)		10 ft (3.0 m)		13 ft (4.0 m)		16 ft (5.0 m)		REACH	CAPACITY		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE		@	END	SIDE
+13 ft (4.0 m)										15 ft 5 in (4.70 m)	1,430 lb* (650 kg)*	1,430 lb* (650 kg)*
+10 ft (3.0 m)					2,090 lb* (950 kg)*	2,090 lb* (950 kg)*	2,130 lb* (960 kg)*	1,400 lb (640 kg)		17 ft 3 in (5.27 m)	1,380 lb* (620 kg)*	1,250 lb (570 kg)
+7 ft (2.0 m)			3,260 lb* (1 480 kg)*	3,260 lb* (1 480 kg)*	2,680 lb* (1 210 kg)*	2,040 lb (920 kg)	2,410 lb* (1 090 kg)*	1,350 lb (610 kg)		18 ft 3 in (5.56 m)	1,420 lb* (650 kg)*	1,090 lb (490 kg)
+3 ft (1.0 m)			5,140 lb* (2 330 kg)*	3,000 lb (1 360 kg)	3,430 lb* (1 550 kg)*	1,880 lb (850 kg)	2,730 lb* (1 240 kg)*	1,270 lb (580 kg)		18 ft 6 in (5.63 m)	1,580 lb* (710 kg)*	1,020 lb (460 kg)
Groundline	3,590 lb* (1 630 kg)*	3,590 lb* (1 630 kg)*	6,250 lb* (2 840 kg)*	2,770 lb (1 260 kg)	3,990 lb* (1 810 kg)*	1,760 lb (800 kg)	2,980 lb* (1 350 kg)*	1,210 lb (550 kg)		18 ft 0 in (5.48 m)	1,880 lb* (850 kg)*	1,030 lb (470 kg)
-3 ft (-1.0 m)	5,480 lb* (2 490 kg)*	5,480 lb* (2 490 kg)*	6,370 lb* (2 890 kg)*	2,700 lb (1 220 kg)	4,150 lb* (1 880 kg)*	1,700 lb (770 kg)	2,950 lb* (1 340 kg)*	1,190 lb (540 kg)		16 ft 8 in (5.08 m)	2,510 lb* (1 140 kg)*	1,160 lb (520 kg)
-7 ft (-2.0 m)	8,080 lb* (3 670 kg)*	5,700 lb (2 590 kg)	5,630 lb* (2 550 kg)*	2,730 lb (1 240 kg)	3,680 lb* (1 670 kg)*	1,710 lb (780 kg)				14 ft 4 in (4.36 m)	3,140 lb* (1 420 kg)*	1,500 lb (680 kg)
-10 ft (-3.0 m)	6,020 lb* (2 730 kg)*	5,960 lb (2 700 kg)	3,460 lb* (1 570 kg)*	2,880 lb (1 300 kg)						9 ft 11 in (3.01 m)	3,450 lb* (1 570 kg)*	2,870 lb (1 300 kg)

NOTE: Lifting capacity are based on ISO 10567.

Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

The lift point is a hook located on the back of the bucket.

\*Indicates load limited by hydraulic capacity.



## STANDARD EQUIPMENT

### ENGINE

Yanmar 4TNV98C  
Engine access under rear hood  
Glow plug starting aid  
Dry type air cleaner with restriction indicator

### ELECTRICAL

12-volt electrical starting system  
Heavy-duty battery  
Battery Master Switch  
Key Start  
Anti-Theft-Engine starting passwords  
Front and rear working light  
12 V power outlet  
Auto-idle feature with on/off switch  
Horn  
Pre-wired – Telematics ready

### HYDRAULICS

Auxiliary hydraulics – independent single and bi-directional – and plumbing to arm  
Large hydraulic oil cooler  
Control pattern selector valve  
Cylinder rod protection covers – Boom

### TRACK DRIVE

Rubber belt tracks  
Automatic 2-speed travel  
Fully hydrostatic drive system  
Sealed and lubricated track rollers  
Track tension adjustment – grease type

### UPPER STRUCTURE

Short radius tail swing  
Standard arm: 4 ft 10 in (1.48 m)  
Bucket linkage with lifting hook  
Thumb bracket

### OPERATOR ENVIRONMENT

See page 1

### OTHER

Swing boom – 70° left/50° right  
Hydraulic backfill blade

### WARRANTY

Base warranty coverage: 2-Year/3,000-Hour  
Full Machine Limited Warranty

## OPTIONAL EQUIPMENT

### OPERATOR ENVIRONMENT

Rearview camera  
Travel alarm

### TRACK OPTIONS

Tracks:  
Steel Tracks 1 ft 3 in (380 mm)  
Steel Tracks 1 ft 6 in (450 mm)  
Steel Tracks with bolt on Rubber Pads  
1 ft 4 in (400 mm)  
Roadliner tracks – steel chain with rubber grousers/shoes 1 ft 4 in (400 mm)  
Rubber Belt Tracks 1 ft 4 in (400 mm)  
Track guides for steel tracks and steel tracks with bolt on rubber track pads only:  
3-piece

### OTHER

Additional counterweight adds 440 lb (200 kg)  
Optional long arm: 6 ft 3 in (1.9 m)  
Hydraulic quick coupler provision  
Hydraulic coupler  
Klac coupler  
Mechanical coupler  
Hydraulic hammer  
Beacon  
2nd auxiliary circuit

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