



ENGINE

Model	Yanmar 3TNV88F-ESHYB
Emissions Certification	Tier 4 Final
Fuel	Diesel
Cylinders	3
Displacement	100.2 in ³ (1 642 cc)
Fuel injection	Mechanical w/electronic governor
Gross horsepower – SAE J1995 @ 2200 RPM:	24.4 hp (18.2 kW)
Cooling	Water-cooled

DRIVETRAIN

Travel speeds:	
1st	1.5 mph (2.4 kph)
2nd	2.6 mph (4.2 kph)
Maximum traction force	6,835 lb (3 100 kg)
Gradeability	30° (58%)
Ground pressure	3.98 psi (0.28 kgf/cm ²)

ELECTRICAL

Voltage	12 Volts
Alternator rating	55 amp
Battery	1 x 12 V x 70 Ah 750 CCA

OPERATOR ENVIRONMENT

ROPS/FOPS four post canopy; Pilot operated hand controls and foot pedals; Adjustable seat w/seat belt; Arm rests; 12V socket.

Display includes:

Engine oil pressure warning lamp; Battery charging warning lamp; Engine preheat pilot lamp; Engine coolant temp warning lamp; Air cleaner warning lamp; Overload warning lamp; Travel speed pilot lamp; Fuel low level warning lamp; Air cleaner warning lamp; Hyd. quick coupler lock lamp; Engine coolant temp gauge; Fuel gauge and Hour meter.

OPERATING WEIGHT

Canopy operating weight:	
Short arm	7,110 lb (3 225 kg)
Long arm w/additional counterweight	7,420 lb (3 365 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 x 2:	9.9 gpm (37.4 L/min)

Auxiliary flow @ 2,973 psi (205 bar):	
Primary	16.0 gpm (60.5 L/min)
Secondary	16.0 gpm (60.5 L/min)

System relief pressure:	
Standard	3,270 psi (230 bar)
Overload relief valve	3,560 psi (250 bar)

Pilot control hydraulic system:	
Pump	Gear Pump
Maximum capacity	2.6 gpm (9.9 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
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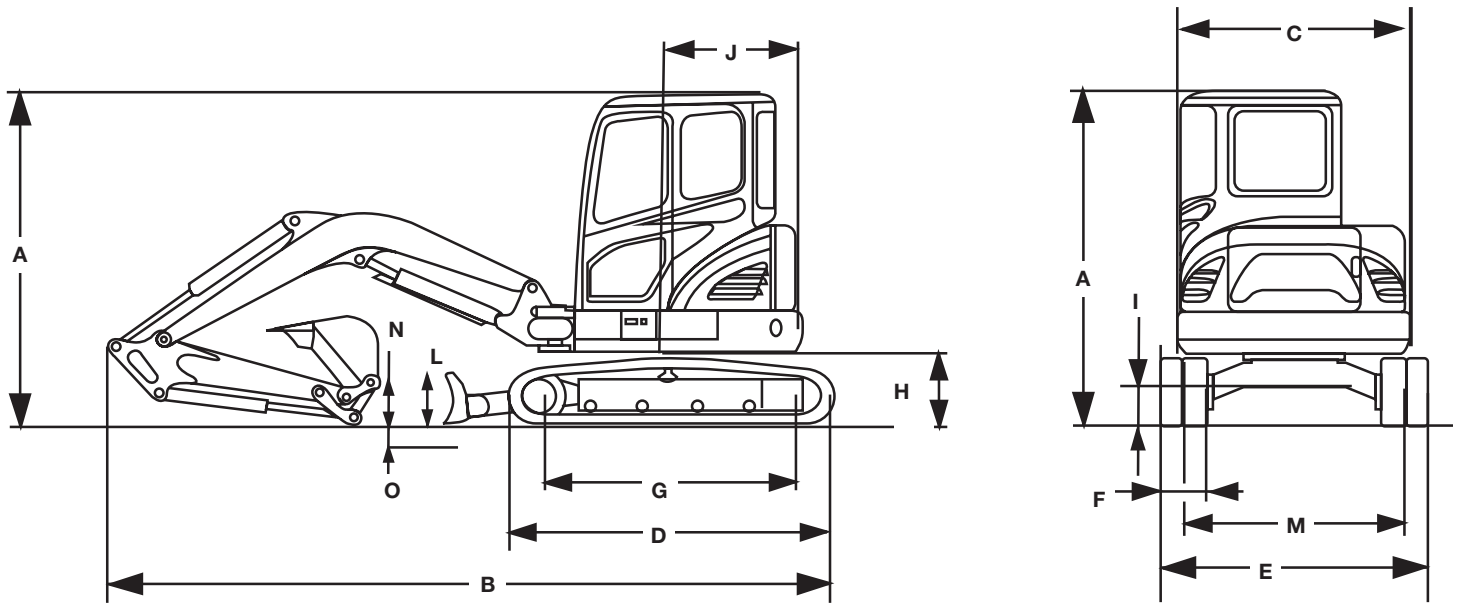
Travel motor:	Variable displacement axial piston 2-stage planetary Automatic spring applied hydraulic released brake
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SERVICE CAPACITIES

Fuel tank	7.9 gal (30 L)
Hydraulic tank:	
Refill capacity	7.1 gal (27 L)
Total system	14.5 gal (55 L)
Engine oil w/ filter change	1.8 gal (6.7 L)
Radiator	1.5 gal (5.5 L)

OTHER SPECIFICATIONS

Swing speed	0 – 9.0 RPM
Undercarriage:	
Track rollers	1 upper/4 lower each
Boom:	
Swing	75° left/50° right
Length	7 ft 10 in (2.38 m)
Arm:	
Standard length	4 ft 3 in (1.3 m)
Long arm length	5 ft 3 in (1.6 m)



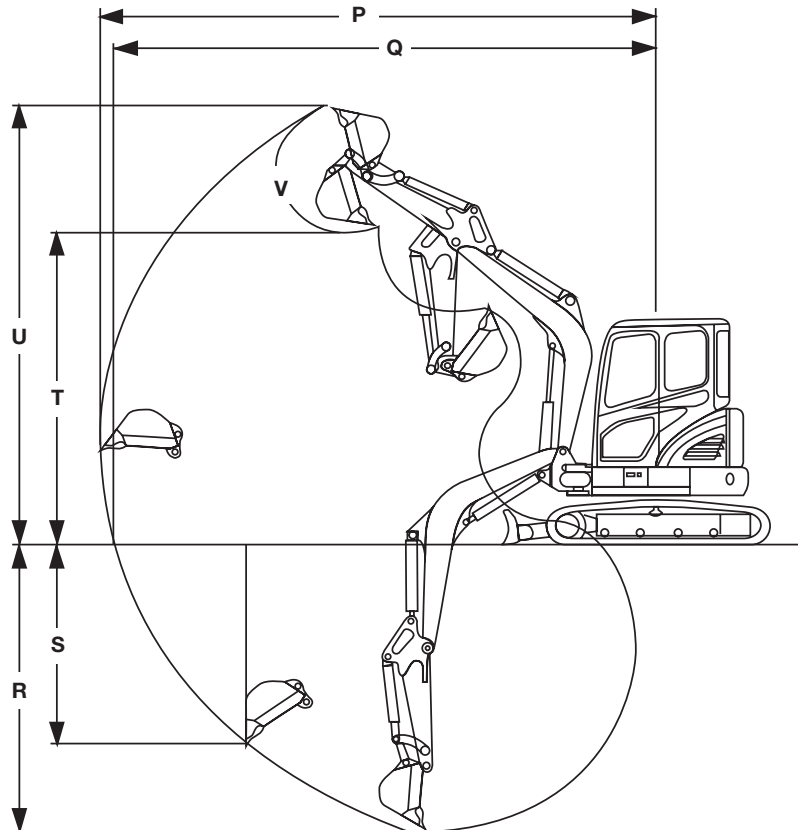
Line drawings are for illustrative purpose only and may not be exact representation of unit.

DIMENSIONS

	4 ft 3 in (1.3 m) Arm
A. Overall height	8 ft 2 in (2 500 mm)
B. Overall transport length	15 ft 3 in (4 640 mm)
C. Width of upper structure	5 ft 0 in (1 530 mm)
D. Track overall length	7 ft 0 in (2 130 mm)
E. Track overall width	5 ft 1 in (1 550 mm)
F. Track shoe width	12 in (300 mm)
G. Center to center - idler to sprocket	5 ft 7 in (1 700 mm)
H. Upper structure ground clearance	1 ft 9 in (540 mm)
I. Minimum ground clearance	11 in (290 mm)
J. Tail swing radius:	
Standard counterweight	2 ft 7 in (775 mm)
Additional counterweight	2 ft 10 in (875 mm)
Boom swing	75° left/50° right
Tail swing overhang:	
Standard counterweight	0 in (0 mm)
Additional counterweight	4 in (100 mm)

BLADE SPECS

L. Backfill blade height	1 ft 1 in (330 mm)
M. Backfill blade width	5 ft 1 in (1 550 mm)
N. Backfill blade rise above ground	1 ft 4 in (400 mm)
O. Backfill blade dig depth	1 ft 5 in (435 mm)



PERFORMANCE SPECS

	4 ft 3 in (1.3 m) Arm	5 ft 3 in (1.6 m) Arm
P. Maximum dig radius	17 ft 0 in (5 180 mm)	17 ft 11 in (5 470 mm)
Q. Dig radius at groundline	16 ft 7 in (5 060 mm)	17 ft 7 in (5 355 mm)
R. Maximum dig depth	9 ft 11 in (3 035 mm)	10 ft 11 in (3 335 mm)
S. Vertical straight wall dig depth	6 ft 8 in (2 030 mm)	7 ft 11 in (2 410 mm)
T. Dump height	10 ft 9 in (3 275 mm)	11 ft 4 in (3 455 mm)
U. Overall reach height	15 ft 3 in (4 650 mm)	15 ft 11 in (4 840 mm)
V. Bucket rotation	180°	180°
Arm digging force - ISO	4,390 lbf (1 990 kgf/19.5 kN)	3,800 lbf (1 720 kgf/16.9 kN)
Bucket digging force - ISO	6,900 lbf (3 130 kgf/30.7 kN)	6,900 lbf (3 130 kgf/30.7 kN)

LIFT CAPACITIES

7 ft 10 in (2.38 m) Boom, 4 ft 3 in (1.3 m) Arm, Dozer Blade Down Unit equipped with 0.09 m³ (SAE heaped) bucket, 12 in (300 mm) rubber track and 485 lb (220 kg) counterweight.

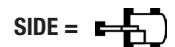
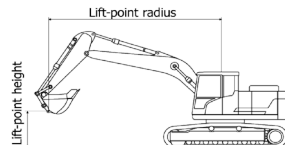
Load/Lift Point Height	LOAD RADIUS								AT MAXIMUM REACH		
	3 ft (1.0 m)		7 ft (2.0 m)		10 ft (3.0 m)		13 ft (4.0 m)		REACH	CAPACITY	
	END	SIDE	END	SIDE	END	SIDE	END	SIDE		@	END
+10 ft (3.0 m)									12 ft 10 in (3.92 m)	1,240 lb* (560 kg)*	650 lb (290 kg)
+8 ft (2.5 m)							1,440 lb* (650 kg)*	610 lb (280 kg)	13 ft 9 in (4.19 m)	1,220 lb* (550 kg)*	550 lb (250 kg)
+7 ft (2.0 m)					1,740 lb* (790 kg)*	1,040 lb (470 kg)	1,510 lb* (680 kg)*	590 lb (270 kg)	14 ft 4 in (4.37 m)	1,230 lb* (560 kg)*	480 lb (220 kg)
+5 ft (1.5 m)			4,130 lb* (1 870 kg)*	1,890 lb (860 kg)	2,100 lb* (950 kg)*	970 lb (440 kg)	1,620 lb* (730 kg)*	570 lb (260 kg)	14 ft 8 in (4.47 m)	1,280 lb* (580 kg)*	440 lb (200 kg)
+3 ft (1.0 m)			3,090 lb* (1 400 kg)*	1,660 lb (750 kg)	2,460 lb* (1 110 kg)*	900 lb (410 kg)	1,740 lb* (790 kg)*	540 lb (250 kg)	14 ft 9 in (4.50 m)	1,360 lb* (620 kg)*	420 lb (190 kg)
+2 ft (0.5 m)			3,140 lb* (1 420 kg)*	1,590 lb (720 kg)	2,730 lb* (1 240 kg)*	850 lb (380 kg)	1,840 lb* (830 kg)*	520 lb (230 kg)	14 ft 8 in (4.46 m)	1,480 lb* (670 kg)*	420 lb (190 kg)
Groundline			4,030 lb* (1 830 kg)*	1,570 lb (710 kg)	2,880 lb* (1 310 kg)*	810 lb (370 kg)	1,890 lb* (860 kg)*	500 lb (230 kg)	14 ft 3 in (4.35 m)	1,670 lb* (760 kg)*	430 lb (190 kg)
-2 ft (-0.5 m)	3,650 lb* (1 660 kg)*	3,650 lb* (1 660 kg)*	5,200 lb* (2 360 kg)*	1,580 lb (720 kg)	2,890 lb* (1 310 kg)*	790 lb (360 kg)	1,860 lb* (840 kg)*	490 lb (220 kg)	13 ft 8 in (4.16 m)	1,740 lb* (790 kg)*	460 lb (210 kg)
-3 ft (-1.0 m)	4,470 lb* (2 030 kg)*	4,470 lb* (2 030 kg)*	4,940 lb* (2 240 kg)*	1,600 lb (720 kg)	2,750 lb* (1 250 kg)*	790 lb (360 kg)			12 ft 8 in (3.87 m)	1,800 lb* (820 kg)*	530 lb (240 kg)
-5 ft (-1.5 m)	5,410 lb* (2 450 kg)*	5,410 lb* (2 450 kg)*	4,260 lb* (1 930 kg)*	1,640 lb (740 kg)	2,420 lb* (1 100 kg)*	810 lb (370 kg)			11 ft 4 in (3.46 m)	1,870 lb* (850 kg)*	650 lb (290 kg)
-7 ft (-2.0 m)			3,200 lb* (1 450 kg)*	1,700 lb (770 kg)					9 ft 4 in (2.85 m)	1,900 lb* (860 kg)*	940 lb (420 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.

7 ft 10 in (2.38 m) Boom, 5 ft 3 in (1.6 m) Arm, Dozer Blade Down Unit equipped with 0.09 m³ (SAE heaped) bucket, 12 in (300 mm) rubber track and 772 lb (350 kg) counterweight.

Load/Lift Point Height	LOAD RADIUS								AT MAXIMUM REACH		
	3 ft (1.0 m)		7 ft (2.0 m)		10 ft (3.0 m)		13 ft (4.0 m)		REACH	CAPACITY	
	END	SIDE	END	SIDE	END	SIDE	END	SIDE		@	END
+10 ft (3.0 m)							1,210 lb* (550 kg)*	740 lb (330 kg)	14 ft 1 in (4.28 m)	960 lb* (430 kg)*	630 lb (280 kg)
+7 ft (2.0 m)							1,340 lb* (610 kg)*	700 lb (320 kg)	15 ft 5 in (4.69 m)	940 lb* (430 kg)*	490 lb (220 kg)
+3 ft (1.0 m)			4,610 lb* (2 090 kg)*	2,020 lb (920 kg)	2,210 lb* (1 000 kg)*	1,070 lb (480 kg)	1,610 lb* (730 kg)*	640 lb (290 kg)	15 ft 9 in (4.81 m)	1,020 lb* (460 kg)*	440 lb (200 kg)
Groundline	2,210 lb* (1 000 kg)*	2,210 lb* (1 000 kg)*	3,960 lb* (1 800 kg)*	1,800 lb (820 kg)	2,780 lb* (1 260 kg)*	950 lb (430 kg)	1,840 lb* (830 kg)*	590 lb (270 kg)	15 ft 4 in (4.68 m)	1,210 lb* (550 kg)*	440 lb (200 kg)
-3 ft (-1.0 m)	3,600 lb* (1 630 kg)*	3,600 lb* (1 630 kg)*	5,330 lb* (2 420 kg)*	1,790 lb (810 kg)	2,830 lb* (1 290 kg)*	910 lb (410 kg)	1,810 lb* (820 kg)*	570 lb (260 kg)	13 ft 11 in (4.25 m)	1,610 lb* (730 kg)*	520 lb (240 kg)
-7 ft (-2.0 m)	5,240 lb* (2 380 kg)*	5,240 lb* (2 380 kg)*	3,980 lb* (1 810 kg)*	1,870 lb (850 kg)	2,200 lb* (1 000 kg)*	950 lb (430 kg)			11 ft 1 in (3.38 m)	1,740 lb* (790 kg)*	790 lb (360 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.
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STANDARD EQUIPMENT

ENGINE

Yanmar 3TNV88F-ESHYB
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 working light
12 V power outlet
Auto idle feature with on/off switch
Horn

HYDRAULICS

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

TRACK DRIVE

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

UPPER STRUCTURE

Zero tail swing
Standard arm: 4 ft 3 in (1.3 m)
Bucket linkage with lifting hook

OPERATOR ENVIRONMENT

See page 1

OTHER

Swing boom – 75° left/50° right
Hydraulic backfill blade

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Travel alarm

TRACK OPTIONS

Tracks:
Steel Tracks 12 in (300 mm)

OTHER

Additional counterweight: 286 lb (130 kg)
Optional long arm: 5 ft 3 in (1.6 m)
Thumb bracket
Hydraulic quick coupler provision
Hydraulic coupler
Klac coupler
Mechanical coupler
Hydraulic hammer
Beacon
2nd auxiliary circuit
Steel Tracks

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Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.

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