CASE CONSTRUCTION

CX37C

MINI EXCAVATOR

TIER 4 FINAL CERTIFIED



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)
Net horsepower – SAE J1349 @ 2200 RPM:	23.7 hp (17.7 kW)
Maximum Engine Torque @ 1200 RPM:	69.4 lb ft (94.1 Nm)
Cooling	Water-cooled

DRIVETRAIN

Travel speeds:	
1st	1.6 mph (2.5 kph)
2nd	2.6 mph (4.2 kph)
Maximum traction force	6,835 lb (3 100 kg)
Gradeability	30° (58%)
Ground pressure:	
Canopy	N/A
Cab	4.83 psi (0.34 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 or enclosed cab; ISO 6396:2008 sound pressure level LpA=75bB (A); 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	7,990 lb (3 625 kg)
Long arm w/additional counterweight	8,350 lb (3 790 kg)
Cab operating weight:	
Short arm	8,300 lb (3 765 kg)
Long arm w/additional counterweight	8,660 lb (3 930 kg)

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

HYDRAULICS

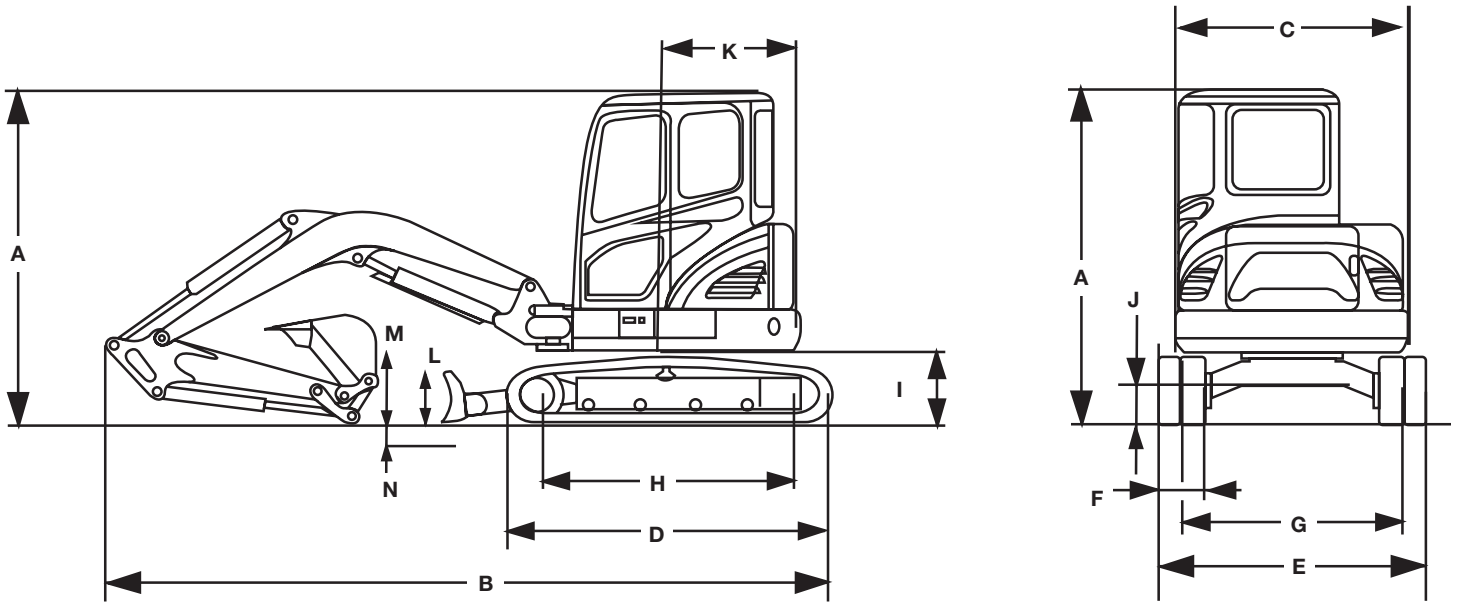
Main pumps:	Variable displacement tandem axial piston pump + gear pump
Max rated flow:	2 x 9.9 + 6.1 gpm (2 x 37.4 + 23.1 L/min)
Auxiliary flow @ 3,278 psi (226 bar):	
Primary	16.0 gpm (60.5 L/min)
Secondary	16.0 gpm (60.5 L/min)
System relief pressure:	
Standard	3,271 psi (226 bar)
Overload relief valve	3,556 psi (245 bar)
Pilot control hydraulic system:	
Pump	Gear Pump
Maximum capacity	2.6 gpm (9.9 L/min)
Control valves:	
Pilot control for boom, arm, bucket, and swing	
Mechanical control for left/right travel 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

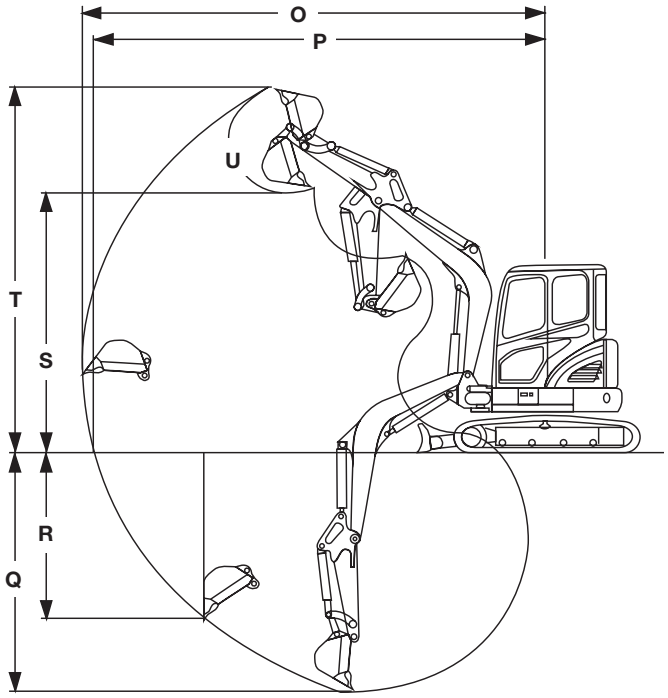
Fuel tank	10.5 gal (40 L)
Hydraulic tank:	
Refill capacity	9.8 gal (37 L)
Total system	15.9 gal (60 L)
Engine oil w/filter change	1.8 gal (6.7 L)
Radiator	1.5 gal (5.5 L)

OTHER SPECIFICATIONS

Swing speed	0 – 9.5 RPM
Undercarriage:	
Track rollers	1 upper/4 lower each
Boom:	
Swing	75° left/50° right
Length	8 ft 2 in (2.5 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 9 in (4 790 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 9 in (1 740 mm)
F. Track shoe width	12 in (300 mm)
G. Track gauge	4 ft 9 in (1 440 mm)
H. Center to center – idler to sprocket	5 ft 7 in (1 700 mm)
I. Upper structure ground clearance	1 ft 9 in (540 mm)
J. Minimum ground clearance	11 in (290 mm)
K. Tail swing radius:	
Standard counterweight	2 ft 10 in (870 mm)
Additional counterweight	3 ft 3 in (985 mm)
Boom swing	75° left/50° right
Tail swing overhang:	
Standard counterweight	0 in (0 mm)
Additional counterweight	5 in (115 mm)

BLADE SPECS

	Standard Blade	Angled Blade
L. Backfill blade height	1 ft 3 in (370 mm)	1 ft 4 in (407 mm)
M. Backfill blade rise above ground	1 ft 3 in (375 mm)	1 ft 5 in (428 mm)
N. Backfill blade dig depth	1 ft 3 in (390 mm)	1 ft 5 in (440 mm)
Backfill blade width	5 ft 9 in (1 740 mm)	5 ft 9 in (1 740 mm)

PERFORMANCE SPECS

	4 ft 3 in (1.3 m) Arm	5 ft 3 in (1.6 m) Arm
O. Maximum dig radius	17 ft 5 in (5 315 mm)	18 ft 5 in (5 605 mm)
P. Dig radius at groundline	17 ft 1 in (5 200 mm)	18 ft 0 in (5 495 mm)
Q. Maximum dig depth	10 ft 3 in (3 135 mm)	11 ft 3 in (3 440 mm)
R. Vertical straight wall dig depth	7 ft 2 in (2 190 mm)	8 ft 5 in (2 565 mm)
S. Dump height	11 ft 3 in (3 425 mm)	11 ft 10 in (3 615 mm)
T. Overall reach height	15 ft 9 in (4 810 mm)	16 ft 7 in (5 010 mm)
U. 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

8 ft 2 in (2.5 m) Boom, 4 ft 3 in (1.3 m) Arm, Dozer Blade Down *Canopy unit equipped with 0.11 m³ (SAE heaped) bucket, 12 in (300 mm) rubber track and 900 lb (410 kg) counterweight.*

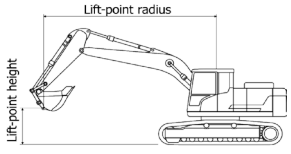
Load / Lift Point Height	LOAD RADIUS								MAXIMUM REACH		
	3 ft (1.0 m)		7 ft (2.0 m)		10 ft (3.0 m)		13 ft (4.0 m)		REACH	CAPACITY	
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+10 ft (3.0 m)									12 ft 11 in (3.94 m)	1,170 lb* (530 kg)*	1,070 lb (490 kg)
+7 ft (2.0 m)					1,380 lb* (630 kg)*	1,380 lb* (630 kg)*	1,210 lb* (550 kg)*	1,020 lb (460 kg)	14 ft 7 in (4.45 m)	1,190 lb* (540 kg)*	830 lb (380 kg)
+3 ft (1.0 m)					1,990 lb* (900 kg)*	1,540 lb (700 kg)	1,400 lb* (640 kg)*	970 lb (440 kg)	15 ft 3 in (4.64 m)	1,240 lb* (560 kg)*	750 lb (340 kg)
Groundline			2,990 lb* (1 320 kg)*	2,500 lb (1 130 kg)	2,410 lb* (1 090 kg)*	1,440 lb (650 kg)	1,570 lb* (710 kg)*	920 lb (420 kg)	14 ft 11 in (4.55 m)	1,320 lb* (600 kg)*	750 lb (340 kg)
-3 ft (-1.0 m)	3,840 lb* (1 740 kg)*	3,840 lb* (1 740 kg)*	4,330 lb* (1 960 kg)*	2,800 lb (1 270 kg)	2,390 lb* (1 090 kg)*	1,410 lb (640 kg)	1,520 lb* (690 kg)*	910 lb (410 kg)	13 ft 8 in (4.17 m)	1,400 lb* (640 kg)*	860 lb (390 kg)
-7 ft (-2.0 m)	5,680 lb* (2 580 kg)*	5,680 lb* (2 580 kg)*	3,190 lb* (1 450 kg)*	2,980 lb (1 310 kg)	1,840 lb* (830 kg)*	1,460 lb (660 kg)			11 ft 0 in (3.36 m)	1,470 lb* (670 kg)*	1,230 lb (560 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.

8 ft 2 in (2.5 m) Boom, 5 ft 3 in (1.6 m) Arm, Dozer Blade Down *Canopy unit equipped with 0.11 m³ (SAE heaped) bucket, 12 in (300 mm) rubber track and 1,235 lb (560 kg) counterweight.*

Load / Lift Point Height	LOAD RADIUS								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	SIDE
+10 ft (3.0 m)							970 lb* (440 kg)*	970 lb* (440 kg)*	14 ft 2 in (4.32 m)	970 lb* (440 kg)*	970 lb* (440 kg)*
+7 ft (2.0 m)							1,060 lb* (480 kg)*	1,060 lb* (480 kg)*	15 ft 8 in (4.78 m)	940 lb* (420 kg)*	840 lb (380 kg)
+3 ft (1.0 m)			3,710 lb* (1 680 kg)*	3,390 lb (1 540 kg)	1,770 lb* (800 kg)*	1,760 lb (800 kg)	1,290 lb* (590 kg)*	1,110 lb (500 kg)	16 ft 3 in (4.95 m)	990 lb* (450 kg)*	760 lb (350 kg)
Groundline			3,060 lb* (1 390 kg)*	3,060 lb* (1 390 kg)*	2,300 lb* (1 040 kg)*	1,630 lb (740 kg)	1,510 lb* (680 kg)*	1,050 lb (470 kg)	16 ft 0 in (4.87 m)	1,140 lb* (520 kg)*	760 lb (350 kg)
-3 ft (-1.0 m)	3,040 lb* (1 380 kg)*	3,040 lb* (1 380 kg)*	4,610 lb* (2 090 kg)*	3,090 lb (1 400 kg)	2,420 lb* (1 100 kg)*	1,580 lb (720 kg)	1,560 lb* (710 kg)*	1,020 lb (460 kg)	14 ft 10 in (4.52 m)	1,250 lb* (570 kg)*	850 lb (380 kg)
-7 ft (-2.0 m)	4,610 lb* (2 090 kg)*	4,610 lb* (2 090 kg)*	3,720 lb* (1 690 kg)*	3,160 lb (1 430 kg)	2,080 lb* (940 kg)*	1,600 lb (730 kg)			12 ft 6 in (3.81 m)	1,340 lb* (610 kg)*	1,120 lb (510 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.



END = 

SIDE = 

STANDARD EQUIPMENT

ENGINE

Yanmar 3TNV88F-ESHYB
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
Auto-idle feature with on/off switch
Horn
Pre-wired – Telematics ready

HYDRAULICS

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

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

OPERATOR ENVIRONMENT

See page 1

OTHER

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

WARRANTY

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

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Cab with Heat and air conditioning and radio with USB and 2 speakers
Travel alarm

TRACK OPTIONS

Tracks:
Steel Tracks 12 in (300 mm)

OTHER

Additional counterweight adds 330 lb (150 kg)
Optional long arm: 5 ft 3 in (1.6 m)
Hydraulic quick coupler provision
Hydraulic coupler
Klac coupler
Mechanical coupler
Hydraulic hammer
Beacon
2nd auxiliary circuit
4-way angle blade with 25° left and 25° right angle offset: adds 220 lb (100 kg)

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