



LIUGONG COMPACT EXCAVATOR

**9018F**

ISLAND-READY HEAVY  
EQUIPMENT SOLUTIONS



**MICRONESIA**  
CONTRACTORS SOLUTIONS



MCSHEAVYEQUIPMENT.COM



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17-3311 CORSAIR RD., TIYAN, GU 96931

# SPECIFICATIONS

## ENGINE

Emissions rating	EPA Tier 4 Final
Make	Yanmar
Model	3TNV80F
Aspiration	Natural
Cooling fan drive	Direct
Displacement	77.5 in <sup>3</sup> (1.3 L)
Gross power	18.2 hp (13.4 kW) @ 2,200 rpm
Net power	17.1 hp (12.6 kW) @ 2,200 rpm
Peak torque	48.2 lb-ft (65.3 N·m) 1,600 rpm
Cylinders	3
Bore × Stroke	3.1 in x 3.3 in (80 mm × 84 mm)

## HYDRAULIC SYSTEM

### Main Pump

Type	Load-sensing variable piston pump
Maximum flow	15 gal/min (55 L/min)

### Relief Valve Setting

Implement	3,046 psi (21 MPa)
Travel circuit	3,046 psi (21 MPa)
Slew circuit	1,914 psi (13.2 MPa)
Pilot circuit	566 psi (3.9 MPa)

### Hydraulic Cylinders

Boom Cylinder	
Bore × Stroke	2.4 in x 18 in (60 mm x 462 mm)
Arm Cylinder	
Bore × Stroke	2.4 in x 14 in (60 mm x 365 mm)
Bucket Cylinder	
Bore × Stroke	2.4 in x 11 in (60 mm x 295 mm)

## SERVICE CAPACITIES

Fuel tank	7.4 gal (28 L)
Engine oil	1.2 gal (4.4 L)
Cooling system	0.9 gal (3.3 L)
Hydraulic reservoir	6.3 gal (24 L)

## UNDERCARRIAGE

Rubber track assembly	9 in (230 mm)
Bottom rollers each side	3
Top rollers each side	0

## SWING SYSTEM

Planetary gear reduction driven by high torque axial piston motor, with oil disk brake. Swing parking brake resets within five seconds after swing pilot controls return to neutral.

Swing speed	9.5 rpm
Swing torque	1,563 lbf (2,119 N·m)

## DRIVE & BRAKES

2-speed axial piston motors with oil disk brakes. Steering controlled by two detachable hand levers with pedals.

Travel speed	High: 2.8 mph (4.5 km/h)
	Low: 1.7 mph (2.7 km/h)
Gradeability	30° / 58%
Max. drawbar pull	3,597 lb-ft (16 kN)

## ELECTRIC SYSTEM

System voltage	12V
Battery	12V (one)
Alternator	12V - 40A
Starter motor	12V - 1.9 hp (12V - 1.4 kW)

## SOUND PERFORMANCE

Interior sound level (ISO 6396)	78 dB(A)
Exterior sound level (ISO 6395)	90 dB(A)



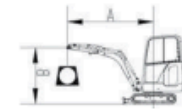
# SPECIFICATIONS

## STANDARD 9018F WITH 9 IN (230 MM) SHOES, CAB 4 FT 0 IN (1.22 M) / CANOPY 3 FT 6 IN (1.07 M) ARM

- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side



Conditions:  
 Boom length: 5 ft 6 in (1.68 m)  
 Arm length: 3 ft 6 in (1.07 m) / 4 ft 0 in (1.22 m)  
 Counterweight: 154 lb (70 kg)  
 Shoes: 9 in (230 mm)  
 Bucket: SAE 0.06 yd<sup>3</sup> (0.045 m<sup>3</sup>) 101 lb (46 kg)



1. \*Indicates the load is limited by hydraulic capacity rather than the tipping capacity.
2. The below loads are in compliance with the ISO 10567 hydraulic rating standard. They do not exceed 87% of the hydraulic lifting capacity of 75% tipping load.
3. Rating at bucket lift hook.

### Cab Blade Down

Cab Blade Up | Ground level & 10 ft | Cf - 550 lb / 249 kg

A Reach: ft (m)

B: Height ft (m)		5 ft (1.5 m)		7 ft (2 m)		8 ft (2.5 m)		10 ft (3 m)		MAX REACH		Distance
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
8 ft 2.5 m	lb kg					*666 *302	607 275			*816 *370	517 234	9 ft 1 in 2.8 m
7 ft 2 m	lb kg					*644 *292	609 276	*814 *369	455 206	*838 *380	424 192	10 ft 3 in 3.1 m
5 ft 1.5 m	lb kg			*750 *340	*682 *309	*792 *359	596 270	*843 *382	453 205	*834 *378	377 171	11 ft 0 in 3.4 m
3 ft 1.5 m	lb kg	*1,543 *699	1,249 566	*1,167 *529	801 363	*1,022 *463	576 261	*920 *417	442 200	*821 *372	353 160	11 ft 5 in 3.5 m
2 ft 1 m	lb kg		1,148 520	*1,655 *750	755 342	*1,214 *550	554 251	*982 *445	428 194	*807 *366	347 157	11 ft 5 in 3.5 m
0 ft 0 m	lb kg	*1,708 *774	1,091 494	*1,794 *813	722 327	*1,282 *581	534 242	*991 *449	419 190	*794 *360	351 159	11 ft 5 in 3.4 m
-2 ft -0.5 m	lb kg	*1,854 *840	1,082 490	*1,701 *771	709 321	*1,229 *557	523 237	*927 *420	413 187	*785 *356	371 168	10 ft 8 in 3.3 m
-3 ft -1 m	lb kg	*2,119 *960	1,088 493	*1,496 *678	706 320	*1,083 *491	521 236		419 190	*785 *356	419 190	9 ft 9 in 3.0 m

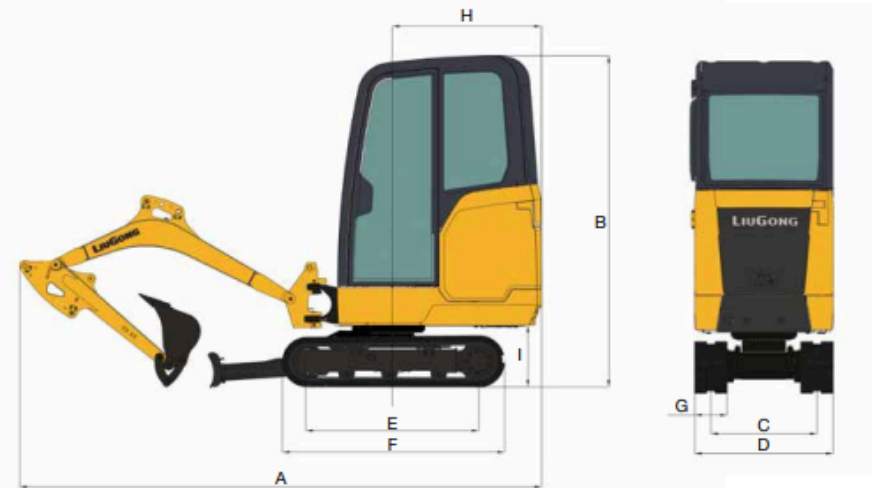
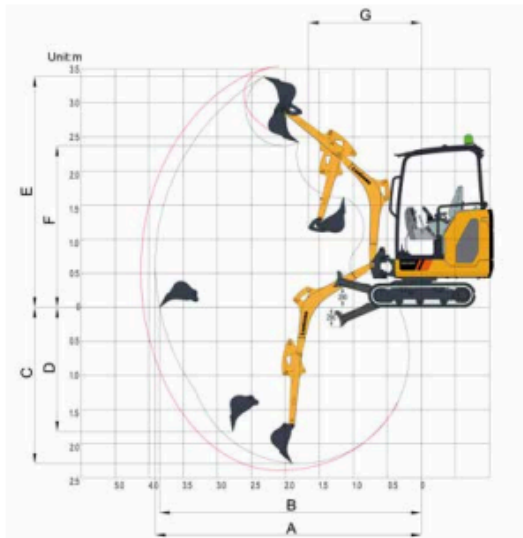
### Canopy Blade Down

Canopy Blade Up | Ground level & 10 ft | Cf - 554 lb / 251 kg

8 ft 2.5 m	lb kg					*828 *375	600 272			*874 *396	572 259	8 ft 6 in 2.6 m
7 ft 2 m	lb kg					*773 *350	605 274			*896 *406	457 207	9 ft 10 in 3 m
5 ft 1.5 m	lb kg			*795 *360	*795 *360	*903 *409	594 269	*905 *410	450 204	*890 *403	404 183	10 ft 6 in 3.2 m
3 ft 1.5 m	lb kg			*1,349 *611	792 359	*1,104 *500	574 260	*960 *435	442 200	*872 *395	377 171	10 ft 10 in 3.3 m
2 ft 1 m	lb kg			*1,737 *787	751 340	*1,256 *569	554 251	*1,000 *453	430 195	*852 *386	366 166	11 ft 2 in 3.4 m
0 ft 0 m	lb kg	*1,614 *731	1,095 496	*1,795 *813	724 328	*1,287 *583	536 243	*985 *446	422 191	*839 *380	373 169	10 ft 10 in 3.3 m
-2 ft -0.5 m	lb kg	*1,876 *850	1,095 496	*1,660 *752	715 324	*1,205 *546	530 240	*894 *405	417 189	*826 *374	400 181	10 ft 2 in 3.1 m
-3 ft -1 m	lb kg	*2,130 *965	1,104 500	*1,430 *648	717 325	*1,031 *467	530 240			*826 *374	459 208	9 ft 2 in 2.8 m



# SPECIFICATIONS



## WORKING RANGES

Description	Standard Cab	Standard Canopy
Boom	5 ft 6 in (1.69 m)	
Arm options	4 ft 0 in (1.21 m)	3 ft 6 in (1.07 m)
A Max. digging reach	13 ft 3 in (4,040 mm)	12 ft 10 in (3,910 mm)
B Max. digging reach at ground level	13 ft 1 in (3,980 mm)	12 ft 8 in (3,850 mm)
C Max. digging depth	8 ft 0 in (2,430 mm)	7 ft 6 in (2,290 mm)
D Max. digging depth 2.4m (8 ft) level bottom	N/A	N/A
E Max. digging height	11 ft 5 in (3,475 mm)	11 ft 1 in (3,385 mm)
F Max. dumping height	8 ft 1 in (2,460 mm)	7 ft 9 in (2,370 mm)
G Min. front swing radius	5 ft 7 in (1,700 mm)	5 ft 5 in (1,660 mm)
Dozer up	9 in (240 mm)	
Dozer down	9 in (240 mm)	
Bucket digging force (ISO)	3,597 lbf (16 kN)	
Arm digging force (ISO)	1,776 lb-ft (8 kN)	2,023 lb-ft (9 kN)
Bucket capacity	0.06 yd <sup>3</sup> (0.045 m <sup>3</sup> )	
Bucket tip radius	1 ft 10 in (548 mm)	

## DIMENSIONS

	Standard Cab	Standard Canopy
Boom	5 ft 6 in (1.69 m)	
Arm options	4 ft 0 in (1.21 m)	3 ft 6 in (1.07 m)
A Shipping length	12 ft 0 in (3,668 mm)	10 ft 2 in (3,099 mm)
B Max. shipping height to top of cab/canopy	8 ft 0 in (2,438 mm)	
C Track gauge (retractable/unretractable)	2 ft 6 in / 3 ft 6 in (750 mm / 1,060 mm)	
D Undercarriage width	3 ft 3 in / 4 ft 3 in (980 mm / 1,295 mm)	
E Length to center of rollers	4 ft 0 in (1,230 mm)	
F Track length	5 ft 2 in (1,580 mm)	
G Track width	9 in (230 mm)	
H Tail swing radius	3 ft 6 in (1,070 mm)	
I Counterweight ground clearance	1 ft 5 in (435 mm)	
Overall height of cab	5 ft 4 in (1,635 mm)	5 ft 6 in (1,670 mm)
Overall width of the upper-structure	3 ft 3 in (980 mm)	
Max boom offset to the right	1 ft 4 in (419 mm)	
Max boom offset to the left	1 ft 10 in (558 mm)	
Max boom swing angle to the right	58°	
Max boom swing angle to the left	72°	

