



**ALPHA & OMEGA
EQUIPMENT
SALES & RENTAL**

Your Equipment Family

***-New and Used Equipment
-Rentals, Sales, and Financing
-Mobile Full-Service Fleet***

9027F

Compact Excavator



LIUGONG

NORTH AMERICA

Engine: Yanmar 3TNV80F

Gross Power: 20.4 HP (15.2 kW)

Operating Weight: 6,063 lb (2,750 kg)

Bucket Capacity: .065 Cubic Yards (.05 Cubic Meters)

Maximum Digging Depth: 9' 4" (2.86 m)



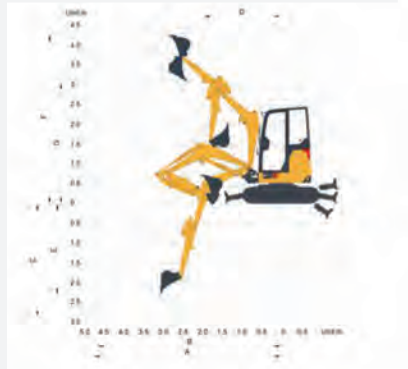
ENGINE	
Emissions rating	EPA Tier 4 Final - Stage V
Make	Yanmar
Model	3TNV80F
Aspiration	Natural
Cooling fan drive	Direct
Displacement	77.3 in ³ (1,267 L)
Output power	20.4 hp (15.2 kW) @ 2,500 rpm
Peak torque	49.6 lb-ft (67.3 N-m) 1,800 rpm
Cylinders	3
Bore x Stroke	3.1 in x 3.3 in (80 mm x 84 mm)

HYDRAULIC SYSTEM	
Main Pump	
Type	Load-sensing variable piston pump
Maximum flow	22.8 gal/min (86.4 L/min)
Relief Valve Setting	
Implement	3,133 psi (21.6 MPa)
Travel circuit	3,133 psi (21.6 MPa)
Slew circuit	2,698 psi (18.6 MPa)
Pilot circuit	566 psi (3.9 MPa)

Hydraulic Cylinders	
Boom Cylinder	
Bore x Stroke	2.7 in x 20.1 in (70 mm x 510 mm)
Arm Cylinder	2.7 in x 19 in (70 mm x 482 mm)
Bore x Stroke	
Bucket Cylinder	
Bore x Stroke	2.5 in x 15 in (65 mm x 382 mm)

SERVICE CAPACITIES	
Fuel tank	7.1 gal (27 L)
Engine oil	1.2 gal (4.4 L)
Cooling system	1.3 gal (5 L)
Hydraulic reservoir	6.9 gal (26 L)

UNDERCARRIAGE	
Rubber track assembly	12 in (300 mm)
Bottom rollers each side	3
Top rollers each side	1



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	3,395 lb-ft (4,600 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	5,530 lb-ft (24.6 kN)

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

SOUND PERFORMANCE	
Interior sound level (ISO 6396)	79 dB(A)
Exterior sound level (ISO 6395)	93 dB(A)



Description	WORKING RANGES	
	Standard Cab	Standard Canopy
Boom	6 ft 10 in (2,08 mm)	
Arm	4 ft 3 in (1,3 m)	
A Max. digging reach	15 ft 7 in (4,757 mm)	
B Max. digging reach at ground level	15 ft 3 in (4,648 mm)	
C Max. digging depth	9 ft 4 in (2,897 mm)	
D Min. front swing radius	6 ft 5 in (1,965 mm)	
E Max. vertical wall digging depth	7 ft 7 in (2,312 mm)	
F Max. digging height	14 ft 4 in (4,385 mm)	
G Max. dumping height	10 ft 1 in (3,067 mm)	
Max. digging depth 2.5m (8 ft 2 in) level bottom	7 ft 10 in (2,386 mm)	
Dozer up	1 ft 2 in (350 mm)	
Dozer down	1 ft 4 in (400 mm)	
Bucket digging force (ISO)	4,490 lbf (20 kN)	
Arm digging force (ISO)	2,698 lbf (12 kN)	
Bucket capacity	0.085 yd ³ (0.05 m ³)	
Bucket tip radius	2 ft 2 in (662 mm)	

Description	DIMENSIONS	
	Standard Cab	Standard Canopy
Boom	6 ft 10 in (2,08 mm)	
Arm	4 ft 3 in (1,3 m)	
A Shipping length	13 ft 8 in (4,160 mm)	
B Max. shipping height to top of cab/canopy	8 ft 1 in (2,450 mm)	
C Track gauge	4 ft 1 in (1,250 mm)	
D Undercarriage width	5 ft 1 in (1,550 mm)	
E Length to center of rollers	5 ft 1 in (1,540 mm)	
F Track length	6 ft 5 in (1,953 mm)	
G Track width	12 in (300 mm)	
H Tail swing radius	2 ft 7 in (775 mm)	
I Counterweight ground clearance	1 ft 9 in (530 mm)	
Max boom offset to the right	2 ft 3 in (694 mm)	
Max boom offset to the left	1 ft 6 in (496 mm)	
Max boom swing angle to the right	54.5°	
Max boom swing angle to the left	74°	

Specifications and designs may change without notice. Machines shown may include optional equipment.

Notes

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AlphaOmegaEquipment.com

