

LIUGONG

PMG

**PACIFIC MACHINERY
GROUP**



Engine	Yanmar 4TNV98C-SLY
Rated Power	46.2 kW (62 hp / 63 ps) @ 2,200 rpm
Net Power	44 kW (59 hp / 60 ps) @ 2,200 rpm
Maximum Dig Depth	4,093 mm
Standard Bucket Capacity	0.28 m ³
Operating Weight	8,700 kg

909ECR EXCAVATOR

TOUGH WORLD. TOUGH EQUIPMENT.

SPECIFICATIONS

Operating weight 8,700 kg (19,180 lb)

Operating weight includes coolant, lubricants, full fuel tank, cab, standard shoes, boom, arm, bucket and operator 75 kg (165 lb).

Bucket capacity 0.28 m³ (0.37 yd³)

ENGINE

Description

Cummins EPA Tier4 / EU Stage IIIB, 6-cylinder, high pressure common rail, electronically controlled direct injection. . Cooling system: Charge air cooler

Emission rating Stage IIIB / Tier 4

Engine manufacturer Yanmar

Engine model 4TNV98C-SLY

Aspiration Natural

Charged air cooling Aftercooler

Cooling fan drive Direct

Displacement 3.3 L (202 gal)

Rated speed 2,200 rpm

Engine output - net 44 kW (59 hp / 60 ps) (SAE J1349 / ISO 9249)

Engine output - gross 46.2 kW (62 hp / 63 ps) (SAE J1995 / ISO 14396)

Maximum torque 241 N-m (178 lbf-ft) @1,430 rpm

Bore x Stroke 98x110 mm (3.86" x 4.33")

DRIVE AND BRAKES

Description

2-speed drive motors allow auto speed shifting. Each motor is equipped with a hydraulic released, spring applied parking brake.

Max. travel speed High: 4.8 km/h (3 mph)
Low: 2.4 km/h (1.5 mph)

Gradeability 30°/58%

Max. drawbar pull 75 kN (16,861 lb)

SWING SYSTEM

Description

Planetary gear reduction driven by high torque axial piston motor with spring applied parking brake; Hydraulic oil lubricate.

Swing speed 10.5 rpm

Swing torque 21,000 N-m (15,489 lbf-ft)

HYDRAULIC SYSTEM

Main pump

Type Variable displacement piston pump

Maximum flow 196 L/min (51.8 gal/min)

Relief valve setting

Implement 28 MPa (4,061 psi)

Travel circuit 31.4 MPa (4,554 psi)

Slew circuit 28 MPa (4,061 psi)

Pilot circuit 3.9 MPa (566 psi)

Hydraulic cylinders

Boom Cylinder – Bore x Stroke Φ110 x 879 mm Φ4.33" x 34.61"

Arm Cylinder – Bore x Stroke Φ100 x 867 mm Φ3.94" x 34.13"

Bucket Cylinder – Bore x Stroke Φ90 x 710 mm Φ3.54" x 27.95"

UNDERCARRIAGE

Track shoe each side 39

Link pitch 154 mm (6.1")

Shoe width, triple grouser 450 mm (18")

Bottom rollers each side 6

Top rollers each side 1

ELECTRIC SYSTEM

System Voltage 12 V

Battery 12 V

Alternator 12 V - 55 A/80A

Start motor 12 V - 3 kW (4 hp)

SERVICE CAPACITIES

Fuel tank 116 L (30.6 gal)

Engine oil 11.6 L (3.1 gal)

Final drive (each) 1.08 L (0.29 gal)

Swing drive 1.6 L (0.42 gal)

Cooling system 14.5 L (3.8 gal)

Hydraulic reservoir 72 (19.0 gal)

Hydraulic system total 110 (29.1 gal)

SOUND PERFORMANCE

Interior Sound Power Level (ISO 6396) 75 dB(A)

Exterior Sound Power Level (ISO 6395) 98 dB(A)

MACHINE WEIGHTS AND GROUND PRESSURE

Operating weight 8,700 kg (19,180 lb)

Shoe width 450 mm (18")

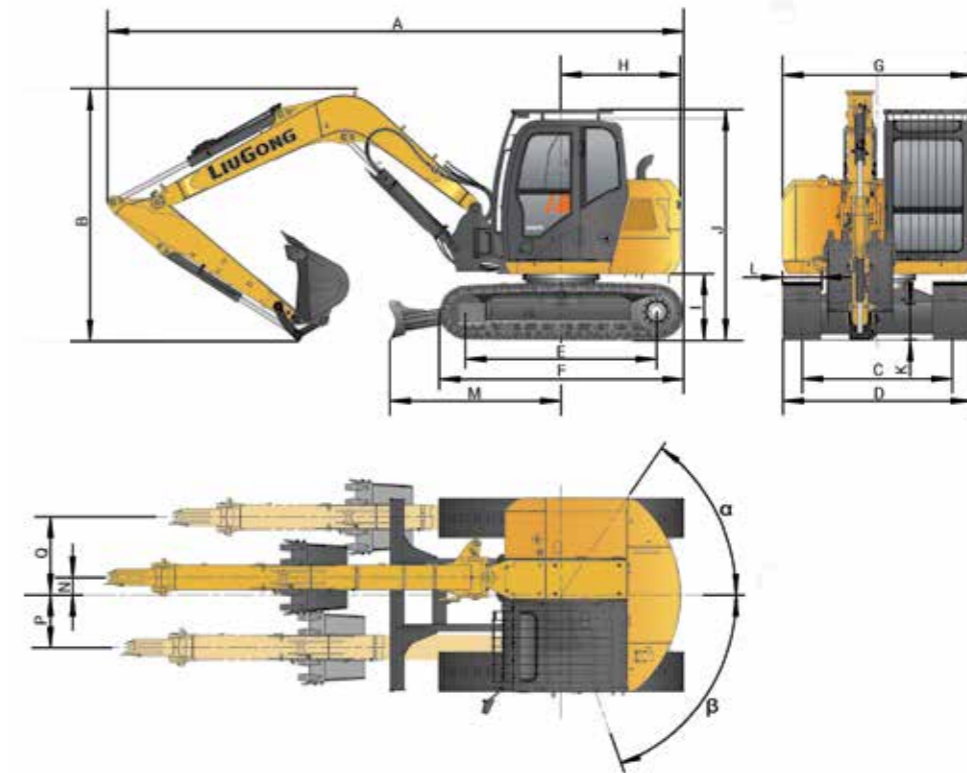
Boom 3,375 mm (11'1")

Arm 1,650 mm (5'5")

Bucket 0.28 m³ (0.37 yd³)

Counterweight 1400 kg (3,086 lb)

Ground pressure 38.7 kPa (5.6 lb)



DIMENSIONS

Boom	3,375 mm (11'1")	
Arm Options	1,650 mm (5'5")	2,100 mm (6'11")
A Shipping Length	6,460 mm (21'2")	
B Shipping Height – Top of Cab	2,730 mm (8'11")	
C Track Gauge	1,950 mm (6'5")	
D Undercarriage Width – with 300 mm Shoes	2,400 mm (7'10")	
E Length to Center of Rollers	2,230 mm (7'4")	
F Track Length	2,845 mm (9'4")	
G Overall Width of Upper Structure	2,200 mm (7'3")	
H Tail Swing Radius	1,410 mm (4'8")	
I Counterweight Ground Clearance	760 mm (2'6")	
J Overall Height of Cab	2,800 mm (9'2")	
K Min. Ground Clearance	360 mm (1'2")	
L Track Shoe Width	450 mm (18")	
M Dozer Blade, Maximum Reach at Ground Level	2,033 mm (6'8")	
N Off Set	200 mm (8")	
O Maximum Boom Offset to the Right	886 mm (2'11")	
P Maximum Boom Offset to the Left	598 mm (2')	
α Maximum Boom Swing Angle to the Right	55°	
β Maximum Boom Swing Angle to the Left	70°	

BOOM DIMENSIONS

Boom	3,375 mm (11'1")
Length	3,510 mm (11'6")
Height	1,236 mm (4'1")
Width	424 mm (1'5")
Weight	435 kg (959 lb)

Only boom.

ARM DIMENSIONS

Arm	1,650 mm (5'5")	2,100 mm (6'11")
Length	2,205 mm (7'3")	2,660 mm (8'9")
Height	510 mm (1'8")	510 mm (1'8")
Width	220 mm (10")	244 mm (9")
Weight	165 kg (364 lb)	210 kg (463 lb)

Only arm.