LiuGong



Engine	YANMAR 4TNV98CT
Rated Power	53.7 kW (72 hp / 73 ps) @ 2,000 rpm
Operating Weight	6,800 kg (14,991 lbs)
Standard Bucket Size	1.2 m^3 (1.6 yd^3)
Standard Breakout Force	62 kN (13,938 lbf)
Standard Dump Clearance	2,670 mm (8'9'')

820T WHEEL LOADER

TOUGH WORLD. TOUGH EQUIPMENT.

820T SPECIFICATIONS

ENGINE	
Emission Regulation	Stage V
Manufacturer	YANMAR
Model	4TNV98CT
Rated Power	53.7 kW (72 hp / 73 ps) @ 2,000 rpm
Peak Torque	283~308 N.m (209~227 lbf·ft) @ 1,365 rpm
Displacement	3.3 L (0.9 gal)
Number of Cylinders	4
Aspiration	Turbocharged & Charge air cooling

TRANSMISSION	
Transmission Type	Hydrostatic transmission gearbox
Maximum Travel Speed, fwd	40 km/h (24.9 mph)
Maximum Travel Speed, rev	16 km/h (9.9 mph)
Number of Speed, fwd	2
Number of Speed, Rev	1

AXLES	
Differential Front Type	100% Differential lock
Differential Rear Type	100% Differential lock
Axle Oscillation	±8°

STEERING	
Steering Hydraulic System	Large displacement steering
Steering Relief Pressure	19 MPa (2,756 psi)

BRAKES	
Service Brake Type	Wet discs brake
Service Brake Actuation	Full hydraulic
Parking Brake Type	Caliper discs brake
Parking Brake Actuation	Electro-hydraulic release

HYDRAULIC SYSTEM	
Main Pump Type	Piston
Main Relief Pressure	23.5 MPa (3,408 psi)
Raise	5.4 s
Dump Time	1.1 s
Float Down Time	3.5 s
Hydraulic Cycle Time	10 s

LOADER ARM PERFORMANCE WITH STANDARD BUCKET 1.2 m³ (1.6 yd ³)	
Tipping Load - Straight (ISO 14397-1:2007)	4,400 kg (9,700 lbs)
Tipping Load - Full Turn (ISO 14397-1:2007)	3,800 kg (8,378 lbs)
Bucket Breakout Force	62 kN (13,938 lbf)
A Maximum Hinge Pin Height	3,408 mm (11’2’’)
B Dump Clearance at Full Height Discharge	2,670 mm (8’9’’)
C Dump Reach at Full Height Discharge	875 mm (2’10’’)
D Maximum Digging Depth, Bucket Level	95 mm (4’’)
S_1 Rollback at Ground Level	45°
S_2 Bucket Rollback at Carry	49.5°
S_3 Bucket Rollback at Maximum Height	60°
S_4 Maximum Dump Angle at Full Height	45°

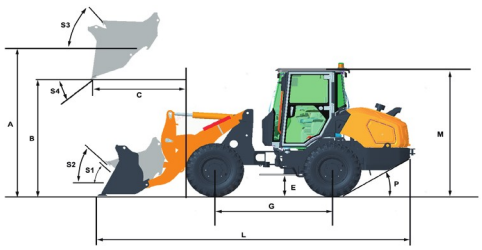
BUCKET PERFORMANCE	
Reference Bucket	0.8~2.0 m³ (1.0~2.6 yd³)

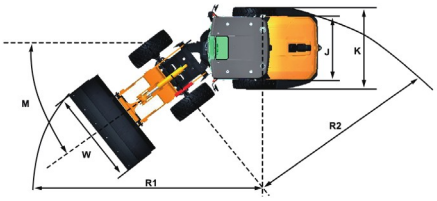
DIMENSIONS	
E Ground Clearance	350 mm (1’2’’)
G Wheelbase	2,150 mm(7’1’’)
H Cab Height	2,520 mm (8’3’’)
J Wheel Tread	1,520 mm (4’12’’)
K Width over Tires	1,930 mm (6’4’’)
L Length with Bucket Down	5,833 mm (19’2’’)
M Turn Angle, Either Side	38 °
P Rear Angle of Departure	30 °
R_1 Turning Radius, Bucket Carry	4,486 mm (14’9’’)
R_2 Turning Radius, Outside of Tire	3,750 mm (12’4’’)
W Width over Bucket	2,225 mm (7’4’’)

TIRES	
Tire Size	405/70R20-LR400

OPERATING WEIGHTS	
Operating Weight	6,800 kg (14,991 lbs)

SERVICE CAPACITY	
Fuel Tank	75 L (19.8 gal)
Engine Oil	4.5 L (1.2 gal)
Cooling System	4.5 L (1.2 gal)
Hydraulic System	65 L (17.2 gal)
Transmission	4.0 L (1.1 gal)
Axles, Front/Rear	8.6 L / 8.6 L (2.3 gal / 2.3 gal)





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09/2025 Designed by LiuGong
Replace the previous versions of 06/2025

Specifications and designs are subject to change without notice.
Machines shown may include optional equipment. LiuGong standard and optional equipment may vary from region to region.
Please consult your LiuGong dealer for information specific to your area. Engine power kW is converted to horsepower (1 kW=1.3596 ps and 1 kW=1.3410 hp) in this file.