LiuGong



Engine	Yunnei YN38GBZ1
Rated Power	65 kW (87 hp / 88 ps) @ 2,400 rpm
Net Power	61 kW (82 hp / 83 ps) @ 2,400 rpm
Operating Weight	5,420 kg
Standard Bucket Size	1.2 m^3
Standard Breakout Force	45 kN
Standard Dump Clearance	3,400 mm

816H WHEEL LOADER

TOUGH WORLD. TOUGH EQUIPMENT.

816H SPECIFICATIONS >>>

ENGINE	
Emission Regulation	Tier 2 / Stage II
Make	Yunnei
Model	YN38GBZ1
Rated Power	65 kW (87 hp / 88 ps) @ 2,400 rpm
Net Power	61 kW (82 hp / 83 ps) @ 2,400 rpm
Peak Torque	285 N·m @ 1,600-1,800 rpm
Number of Cylinders	4
Aspiration	Naturally aspirated
Displacement	3.8 L

TRANSMISSION	
Transmission Type	Countershaft, powershift
Torque Converter	Single stage, three elements
Maximum Travel Speed, fwd	21 km/h
Maximum Travel Speed, rev	21 km/h
Number of Speed, fwd	2
Number of Speed, rev	2

AXLES	
Differential Front Type	Conventional
Differential Rear Type	Conventional
Axle Oscillation	±10°

STEERING	
Steering Configuration	Articulated
Steering Relief Pressure	14.8 MPa

BRAKES	
Service Brake Type	Caliper disc brake
Service Brake Actuation	Air over hydraulic
Parking Brake Type	Disc
Parking Brake Actuation	Mechanical

HYDRAULIC SYSTEM	
Main Pump Type	Gear
Main Relief Pressure	18 MPa
Raise	4.6 s
Dump Time	1.0 s
Float Down Time	3.0 s
Fastest Total Cycle Time	8.6 s

LOADER ARM PERFORMANCE WITH STANDARD BUCKET 1.2 m^3	
Tipping Load - Straight (ISO 14397-1:2007)	3,900 kg
Tipping Load - Full Turn (ISO 14397-1:2007)	3,300 kg
Bucket Breakout Force	45 kN
A Maximum Hinge Pin Height	4,030 mm
B Dump Clearance at Full Height Discharge	3,400 mm
C Dump Reach at Full Height Discharge	880 mm
D Maximum Digging Depth, Bucket Level	30 mm
S1 Bucket Rollback at Ground Level	49 °
S2 Bucket Rollback at Carry	59 °
S3 Bucket Rollback at Maximum Height	60 °
S4 Maximum Dump Angle at Full Height	45 °

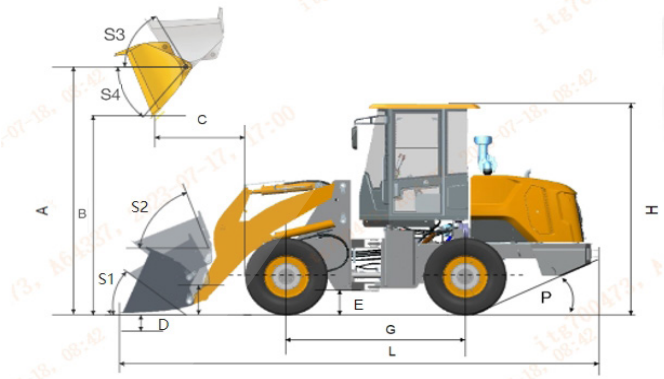
BUCKET PERFORMANCE	
Reference Bucket	0.7-1.5 m^3

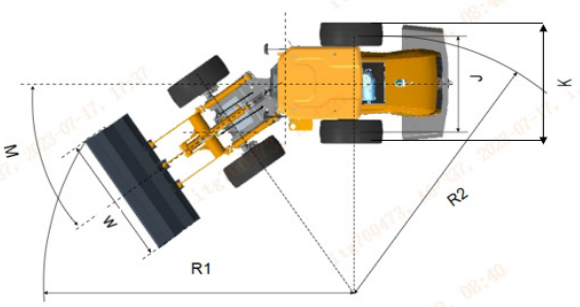
DIMENSIONS	
E Ground Clearance	320 mm
G Wheelbase	2,540 mm
H Cab Height	2,900 mm
J Wheel Tread	1,560 mm
K Width over Tires	1,980 mm
L Length with Bucket Down	6,600 mm
M Turn Angle, Either Side	38 °
P Rear Angle of Departure	30 °
R_1 Turning Radius, Bucket Carry	5,570 mm
R_2 Turning Radius, Outside of Tire	4,780 mm
W Width over Bucket	2,225 mm

TIRES	
Tire Size	16/70-20 14PR

OPERATING WEIGHTS	
Operating Weight	5,420 kg

SERVICE CAPACITY	
Fuel Tank	76 L
Engine Oil	7 L
Cooling System	13 L
Hydraulic Reservoir	65 L
Transmission and Torque Converter	25 L
Axles, each	14 L





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08/2023 Designed by LiuGong

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.